Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

MORE TANGIBLE THAN "SUNSHINE"

Exceedingly optimistic is a circular letter sent out by J. G. White Engineering Corporation to the heads of public service corporations. The letter says in part:

"We believe that for some time past the design and construction of many projects have been deferred because of a feeling that general business conditions did not warant proceeding actively with them.

"But it is well worth considering, particularly at this time, the more important prospects of the immediate future:

"We are apparently assured of a splendid crop return.

"It is announced that before the close of the present Congressional session the Federal legislative programme for stabilizing business will have been completed.

"It is generally conceded that currency reform was of material benefit and that its effects should promptly follow the organization period of the Federal Reserve Board.

"The possibility of war with Mexico seems daily to become more remote.

"These considerations lead obviously to the conclusion that the general outlook is decidedly favorable.

"With this in mind we believed that it would be well to secure the advantages of present market conditions and apply them to construction projects which have been under previous consideration. We are convinced that the price of materials and of labor is much lower today than can reasonably be expected when business activity is quickened.

"We believe that right now is an exceptionally opportune time to go ahead with many deferred construction projects. If the work is new development there is a distinct advantage to be gained from being prepared to supply demand as soon as it occurs, instead of later on when the market may be 'stale' or else unprofitably competitive. If the work is extension or rehabilitation there should be prompt willingness under normal business conditions to furnish added or better service."

ADVANCING PRICES

The American Steel & Wire Co. advanced prices on wire products $1 per ton July 20. Several of the Independent manufacturers have already followed with similar advances.

Cement prices are 5c. per bbl. higher in the Middle West. The new prices per barrel in bulk are as follows. Chicago, $1.17; Minneapolis, $1.40; Pittsburgh, $1.15; Duluth, $1,38; Detroit, $1.24; St. Paul, $1.40; Cleveland, $1.35.

RAILWAYS

Pennsylvania—Pennsylvania R.R.—This company plans to eliminate its tracks in West Chester, Wilkinsburg and Edgewood, Penn. A. C. Shand, Philadelphia, Penn., is Ch. Engr.

Pennsylvania—Pittsburgh & Eastern R.R.—This company, it is reported, plans to construct its proposed extension from Towanda, Penn., to Oregon Hill, Penn. The offices of the company are located at Pittsburgh.

✚Virginia—Southern Ry.—This company has awarded the contract to ROBERT RUSSELL, Danville, Va., for constructing its proposed double-track line between Danville and Dry Fork, Va. The work calls for a bridge across Dan River.

South Carolina—The Chamber of Commerce of Rock Hill, S. C., is interested in the construction of a railroad from Rock Hill to connect with the Seaboard Air Line Ry. C. W. Roberts is Secy.

Georgia—Register & Glenville R.R.—This company is having surveys made for its proposed extension to Statesboro, Ga. B. K. Willingham, Hagan, Ga., is Supt.

Georgia—Moultrie Southwestern Ry.—This company has applied for a charter to construct a line from Moultrie, Ga, southwest to the Florida state line. It will pass through Colquitt, Mitchell, Grady and Decatur Counties. W. E. Ayrock, Moultrie, is interested.

Florida—Atlantic Coast Line R.R.—This company plans to extend its Carpenter-O'Brien Branch to Fort George Island. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

Florida—Export Phosphate Ry. & Terminal Co.—This company has been organized to construct a railway 50 miles long from the plant of the Export Phosphate Co., at Mulberry, Fla., to a phosphate drying plant near Tampa, Fla.

Florida—See item under Miscellaneous: Dock and Railroad Bonds—Pensacola, Fla.

Alabama—Illinois Central R.R.—This company is having surveys made for its proposed extension from Jackson, Miss., to Birmingham, Ala., about 200 miles. A. S. Baldwin, Chicago, Ill., is Ch. Engr.

Mississippi—Illinois Central R.R.—See item under Alabama.

Kentucky—Chesapeake & Ohio Ry.—This company has filed amended articles of incorporation providing for an extension from a point in Kentucky opposite Wheelersburg, Scioto County, Ohio, through the state of Ohio for a distance of 95 miles. The general office of the company is in Richmond, Va. F. L. Cabell is Ch. Engr.

Ohio—Chesapeake & Ohio Ry.—See item under Kentucky.

Wisconsin—Chicago & Northwestern Ry.—This company, it is reported, plans to construct an extension from Kolpenick, Wis., to Pearson, Wis. E. C. Carter, Chicago, Ill., is Ch. Engr.

Montana—Chicago, Milwaukee & St. Paul Ry.—This company plans to construct an extension soon from Great Falls, Mont., through the Cœur d'Alene District. C. F. Laneth. Chicago, Ill., is Ch. Engr.

✚Montana—Great Northern Ry.—This company has awarded the contract to GUTHRIE, McDOUGALL & CO., Portland, Ore., for work at Paola, Mont., to cost $250,000.

Missouri—Surveys are being made for the proposed railroad from Springfield, Mo., to Mountain Home, Ark., about 100 miles. E. C. McAfee, Springfield, is interested.

Texas—Bartlett Western Ry.—This company plans to improve its lines. T. E. Fowler, Bartlett, Tex., is Ch. Engr.

Delta Land & Lumber Co.—This company plans to construct a railroad 15 miles long from Conroe, Tex., to its timber lands. I. H. Fetty, Kansas City, Mo., is Gen. Mgr.

Texas—A standard gage railroad will be constructed between Brownsville, Tex., and Point Isabel, Tex. The Southwestern Engineering Co., Gunter Bldg., San Antonio, Tex., is in charge of the engineering work.

Texas—San Antonio, Uvalde & Gulf R.R.—The State Railroad Commission, July 10, approved an issue by this company of $750,000 in bonds for proposed extensions. E. R. Braker, San Antonio, Tex., is Ch. Engr.

Oklahoma—Clinton, Oklahoma & Western Ry.—This company has beeen purchased by Frank Kell, Wichita Falls, Tex. It is reported that an extension will be built to Chickasha.

Arizona—Mascott & Western Ry.—This company has been incorporated for the purpose of constructing an 18-mile railroad from Wilcox, Ariz., to the mines of the Mascott Copper Co. at Dos Cabezas. The incorporators are F. N. McCauler, D. S. Stevenson, Chas. V. Weston, J. A. Street, J. C. Knapp, C. M. Stoddard and M. A. Pickett, all of whom are identified with the Mascott Copper Co.

Oregon—Sutherlin, Coos Bay & Eastern Ry.—Contracts will probably be awarded soon by this company for constructing its proposed line from Sutherlin, Ore., east to the head of Calapooia River, about 27 miles. H. D. Haley, Sutherlin, Ore., is Engr.-in-Charge.

East Oregon Lumber Co.—This company is having surveys made for its proposed railroad from Enterprise, Ore., north. J. C. Edsall, Enterprise ,is Engr.-in-Charge.

Southern Pacific Co.—This company plans to reballast its line from Portland, Ore., to Springfield Junction, Ore. Estimated cost, about $150,000. W. Hood, San Francisco, Calif., is Ch. Engr.

California—Yosemite Valley R.R.—This company, operating 78 miles of railroad, plans to repair its roadbed. G. H. Nickerson, Merced, Calif., is Ch. Engr.

California—Richmond Belt Ry.—This company has filed articles of incorporation at Martinez, Calif. The company plans to construct a line from San Pablo Wharf to Richmond, Calif. Capital, $500,000. The directors are W. S. Terrs, Clinton Warden, H. A. Wakefield, J. V. de Laveage and Horace Pillsbury.

ELECTRIC RAILWAYS

Augusta, Maine—The Lewiston, Augusta & Waterville Street Ry. Co. plans to extend its lines in Augusta. Harry B. Ivers, Portland, is Gen. Mgr. and Pur. Agt.

Worcester, Mass.—Plans are being considered by the Worcester Consolidated Street Ry. Co. for the extension of its June St. line and for relocating its tracks on Pleasant St. H. C. Page, Worcester, is Gen. Mgr.

✚Milldale, Conn.—The Waterbury & Milldale Tramway Co. has awarded a contract to CHARLES A. BIANCI, South Framingham, Mass., for the grading and track laying on the final section of five miles from Hitchcock's Lake to Milldale. John H. Cassidy, 144 Bank St. ,Waterbury, is Secy. and Gen. Mgr. William G. Smith, 51 Leavenworth St., Waterbury, is Const. Engr. Noted Aug. 7, 1913, and Feb. 5, 1914.

New York, N. Y.—The Union Ry. Co. has purchased franchises for the construction of an electric railway from City Island Station to Belden Point. The company plans to start work at once. James Carrigan, Boston Road and 176th St., is Gen. Supt.

Port Jervis, N. Y.—Preliminary steps are being taken by the Port Jervis Light & Power Co. for the establishment of an electric railway from Port Jervis, N. Y., to Delaware Water Gap, Penn. D. R. Thomas, Port Jervis, is Vice-Pres. and Gen. Mgr.

New Castle, Penn.—The City Council has granted a franchise to the New Castle Electric Street Ry. Co. to extend some of its lines in New Castle.

New Hope, Penn.—The Bucks County Interurban Ry Co. is making surveys for the extension of its system on North Main St. Gaylord Thompson, Trenton, N. J., is Vice-Pres. and Gen. Mgr. Noted May 28.

Wilmington, Del.—Plans are being prepared by the Wilmington & Philadelphia Traction Co. for the extension of its Washington St. line to Concord Ave. William A. Heindle, Wilmington, is Gen. Supt.

Brunswick, Md.—Preliminary arrangements are being made by the Frederick & Brunswick Ry. Co. for the construction of its proposed electric railway to connect Brunswick, Frederick and Jefferson. Oscar B. Coblentz, Frederick, is Ch. Engr. Noted May 7.

Blacksville, W. Va.—The Morgantown & Wheeling Ry. Co. contemplates the extension of its lines through Blacksville. J. A. Martin, Morgantown, is Gen. Mgr. and Pur. Agt.

Morgantown, W. Va.—The South Morgantown Traction Co. contemplates extending its line to Fairmont, about 16 miles. John E. Price, Morgantown, is Secy.

Akron, Ohio—Plans are being prepared by the Northern Ohio Traction & Light Co. for extending several of its lines. Russell Harter, Akron, is Pur. Agt.

Cleveland, Ohio—The Cleveland Ry. Co. contemplates the construction of a crosstown line on 123d St. from Euclid to St. Clair Ave. George L. Radcliffe, Cleveland, is Gen. Mgr.

Sandusky, Ohio—Charles Newell, Sandusky, is interested in the construction of a street car line on Monroe St. The construction work will soon be started.

Toledo, Ohio—The County Commissioners have granted a franchise to Charles Newell, Sandusky, and Philip S. Willis, Toledo, to construct and operate an electric railway from Auburn to Willis Ave., about two miles.

Youngstown, Ohio—Plans are being considered by the Mahoning & Shenango Ry. & Light Co. for the extension of its line to West Austintown, about five miles. J. F. Wessel, Youngstown, is Gen. Mgr.

Linton, Ind.—The Coal Belt Traction Co. has been organized to construct a nelectric railway in Linton. Joseph Moss, George A. Baughman and D. R. Scott are interested.

Lansing, Mich.—The Lansing Connecting Ry. Co. has been incorporated to construct an electric railway in Lansing. George E. Hutchinson is Secy.

Chicago, Ill.—Plans are being considered by the Chicago Rys. Co. for the extension of its lines on North Ave. and Division St., about 5½ miles. Williston Fish, Chicago, is Gen. Mgr.

Ottawa, Ill.—The La Salle County Electric Ry. Co. is considering plans for the construction of an electric railway from Ottawa to Mendota.

+Madison, Wis.—The Janesville & Madison Traction Co. has awarded a contract to M. M. DORAN, Madison, for grading the second division of the route for the proposed interurban line, consisting of the section between Edgerton and Stoughton, Wis. Walter H. Sacket is Engr. Noted July 16.

Mitchell, S. D.—O. E. Cassem, Mitchell, has applied to the Council for a franchise to construct a four-mile electric railway in the northern section of Mitchell.

Mandan, N. D.—According to press reports, plans are being prepared for the construction of an electric railway from Mandan to Manning.

Williston, N. D.—The Williston & Northern Electric Ry. Co. is preparing plans for the extension of its electric railway from Williston to Crosby.

Dallas, Tex.—John T. Jones and associates have filed a petition with the City Commission for a franchise for the construction of an electric railway from Kentucky St. to Henderson Ave., on Parry Ave., Carroll Ave. and Banks St.

San Marcos, Tex.—The San Marcos Interurban Ry. Co., recently organized, will construct an electric interurban railway in San Marcos and vicinity. C. C. Merritt is interested.

Port Townsend, Wash.—The City Council has granted a franchise to C. J. Erickson to construct an electric railway in Port Townsend and to connect with the Milwaukee system at Port Angeles.

South Bend, Wash.—The Willapa Electric Co. contemplates the reconstruction of its electric railway in South Bend, from Water St. to Kleeb Mill. R. L. Fisher, Raymond, is Secy., Gen. Mgr. and Pur. Agt.

Lindsay, Calif.—The City Council has granted a franchise to J. R. Hayden to construct and operate an electric railway in Lindsay.

Ocean Beach, Calif.—The Bay Shore Ry. Co. has been granted a franchise to construct an electric railway from Ocean Beach to Pacific Beach. Noted July 2.

Pomona, Calif.—The City Council has granted a franchise to the Pacific Electric Ry. Co. to construct and operate an eltric railway from Lordsburg to North Pomona. J. McMillan, Los Angeles, is Gen. Mgr.

Sacramento, Calif.—The Northern Electric Ry. Co. contemplates an expenditure of $50,000 for the improvement of its electric railway from Sacramento to Chico. E. R. Lilienthal, 310 Sansome St., San Francisco, is Pres.

Stockton, Calif.—The Stockton Electric Ry. Co. contemplates the extension of its lines in San Joaquin County. Frank W. Webster, San Francisco, is Gen. Mgr. and Pur. Agt.

Toronto, Ont.—The Ontario Railway Board has ordered the Toronto Ry. Co. to extend its line from Agnes to College St. in Toronto. R. J. Fleming, Toronto, is Gen. Mgr.

LIGHT, HEAT AND POWER

Amherst, Mass.—The Holyoke Street Ry. Co. has purchased a site on South Pleasant St. and will construct a power plant for the Amherst & Sunderland Division. Louis D. Pellissier, Holyoke, is Mgr.

Foxboro, Mass.—Bids will be received until Aug. 4 for additions to power house, engine, dynamo, switchboard, etc., for Norfolk State Hospital. W. Rodman Peabody is Chn. of the Bd. of Trustees. Kendall, Taylor & Co., 93 Federal St., Boston, are the Archs.

Greenfield, Mass.—The Greenfield Electric Light & Power Co. is preparing to extend its transmission line from Gardner Falls to Shelburne Center and East Shelburne. G. W. Lawrence, Greenfield, is Mgr. and Supt.

West Springfield, Mass.—The Ramapogue Ice Co. will build a new dam and power house on the Westfield River.

Hotchkissville (North Woodbury Post Office), **Conn.**—The American Shear & Knife Co. contemplates the construction of a dam on the Pomperang River, from which power will be developed to run its factory at Hotchkissville. R. A. Clark is Pres.

New London, Conn.—Plans are being prepared by Ewing & Chapelle, 101 Park Ave., New York, N. Y., for a central heat, light and power plant on Mohegan Ave. for the Connecticut College for Women.

★Bedford Hills, N. Y.—(Official)—Bids will be received by James Wood, Pres. Bd. of Mgrs., for a piping and conduit system for the new boiler plant at the New York State Reformatory for Women. Lewis F. Pilcher, Albany, is State Arch.

★Farmingdale, N. Y.—(Official)—Bids will be received by Franklin W. Hooper, Secy. Bd. of Trustees, 30 Lafayette Ave., Borough of Brooklyn, until 10 a.m., Aug. 8, for the construction of a power house for the New York State School of Agriculture, near Farmingdale. Lewis Pilcher, Albany, is State Arch.

+Port Jervis, N. Y.—According to press reports, the Port Jervis Light & Power Co. has awarded a contract for the construction of a power dam to the GEORGE F. PAWLING CO., Philadelphia, Penn., at about $100,000.

Waterloo, N. Y.—The Tracy Development Co. is making preliminary arrangements for the construction of a power plant at Waterloo. E. K. Baldwin is Secy.

+Newark, N. J.—The Public Service Electric Co. has awarded a contract for the construction of a power plant at Point-No-Point, on the Passaic River, to the LINDE & GRIFFITH CO., Newark. Estimated cost, $100,000. Noted July 2.

Paterson, N. J.—The Society of Useful Manufacturers has had plans prepared for a steam turbine power plant to be constructed at the Paterson Falls basin. The plant is estimated to cost $75,000.

+Callensburg, Penn.—According to press reports, the Clarion River Power Co. has awarded a contract for the construction of three dams on the Clarion River to W. C. CHURCH, New York, N. Y. The first dam will be built near Callensburg. C. C. Crick, Kittanning, is Engr.-in-Charge of the power company. Noted June 11.

+Tarentum, Penn.—The Borough Council has awarded a contract to J. W. WELSH, Pittsburgh, for the construction of a reinforced concrete power house. Noted June 25.

+Venice, Penn.—The Pittsburgh Coal Co. has awarded a contract to D. T. RIFFLE, at about $35,000, for the construction of two power plants at the Montour Mines, Nos. 1 and 2, near Venice.

+Easton, Md.—The contract for the construction of a municipal electric-light plant has been awarded to the WILSON-MALTMAN CO., Baltimore, at $22,660. Noted June 11.

Winston-Salem, N. C.—According to press reports, bids will soon be received for the construction of a municipal electric-light plant. Bonds have been voted for the purpose. I. V. Turner is City Clk. Noted Apr. 23.

Atlanta, Ga.—The Georgia School of Technology will construct a power plant of reinforced concrete, steel and brick, to cost $200,000.

Canton, Ga.—Bonds for $5000 have been voted, the proceeds of which will be used for the construction of a municipal electric-light plant.

Olive Hill, Ky.—The Tygert Electric Co. has been incorporated with a capital stock of $8000, and will establish an electric-lighting system and ice plant.

+Cleveland, Ohio—The contract for the construction of a new one-story, 50x100-ft. power plant at West 106th St. and Madison Ave., for the Parish & Bingham Co., Cleveland, has been awarded the McCLINTIC-MARSHALL CO. Ernest McGregor, 855 Leader-News Bldg., is the Arch.

Munising, Mich.—The Munising Electric Light & Power Co. is making preliminary arrangements to start work soon on the construction of its proposed new power plant.

LaCrosse, Wis.—Plans are being prepared by the Wisconsin-Minnesota Light & Power Co. for the construction of a transmission line from Cedar Falls and Chippewa Falls to LaCrosse.

Aurelia, Iowa—The construction of an electric-light plant at Aurelia is under consideration.

Denison, Iowa—The city is making preliminary arrangements to start work soon on the improvement of the electric-light plant which was recently acquired. W. P. Hoover is Supt. of the plant. Noted July 9.

Des Moines, Iowa—The Des Moines Electric Co. is making preliminary arrangements for the extension and improvement of its power plant on the river front to cost $160,000. W. H. Thompson, Jr., Des Moines, is Gen. Mgr.

Lyons, Iowa—At a recent election the citizens voted to issue bonds for the construction of a municipal electric-light plant.

Hastings, Minn.—The River Falls Power Co., has been granted permission by the Wisconsin Railroad Commission to issue bonds for $20,000, the proceeds of which will be used for the construction of a transmission line from Hastings to Pine Bend. B. W. Utman, Prescott, is Pres.

Eudora, Kan.—The Commercial Club is considering plans for the installation of an electric-light plant.

Thompson, Mont. — The Interstate Power Co. has been incorporated by Edward Donlin, I. E. Keith, and Andrew Peterson, all of this city, with a capitalization of $450,000. The Company is acquiring, and will develop numerous water power sites between this city and the Montana-Idaho Interstate line, on the Clark's Fork of the Columbia River. Announcement has been made that three power plants will be constructed, one near Belknap, another near the town of Front, and a third at Cabinet Gorge: it is reported a crew of engineers are already in the field making preliminary surveys for the work.

Drexel, Mo.—A. J. Steele, Adrian, has applied to the Council for permission to extend the transmission line from Adrian to Drexel.

Pilot Grove, Mo.—The construction of an electric-light plant at Pilot Grove is under consideration.

Cisco, Tex.—The Cisco Gas & Electric Co. has been organized for the purpose of constructing an electric-light plant at Cisco. The incorporators are W. S. Michael, G. G. Ward and W. H. Tebbs.

Gonzales, Tex.—The Gonzales Water Power Co., Austin, Tex., will construct a reinforced concrete dam across the Guadalupe River at Gonzales, to provide for a reservoir and hydro-electric plant to develop 100,000 hp., and to cost about $8,000,000.

Houston, Tex.—The Texas Southern Electric Power Co. has been incorporated to construct a power plant at Houston. The incorporators are Edwin B. Parker, Raymond Neilson and C. L. Carter.

Okemah, Okla.—The Canadian Power & Light Co., plans to construct a hydro-electric plant to develop 2000 hp. on North Canadian River, to cost about $500,00.

Aberdeen, Wash.—The Aberdeen Natural Gas Co., Inc. is planning to construct a gas plant in Aberdeen. Louis Burnett and Samuel Bean are interested.

Auburn, Wash.—The Auburn Gas Co. is preparing to install a gas distributing system.

Kalama, Wash.—The city is having estimates prepared for the construction of a semi-municipal light and power plant. The city to purchase power from some company other than the Washington-Oregon Corporation, and construct a city owned distributing plant.

Republic, Wash.—The County Commissioners have granted a franchise to Mahlon McCain and Fred M. Shields, to construct and operate transmission lines on various roads in Ferry County.

Seattle, Wash.—The City Council has passed an ordinance appropriating $125,000 to complete the first unit of the auxiliary steam plant that will cost $425,000. A. H. Dimock is City Engr.

Glendale, Ore.—The Oregon-California Electric Co. will extend the line from Glendale to Riddle and surrounding country, a distance of about 20 miles.

✚Portland, Ore.—The Portland Gas & Coke Co. has awarded a contract for the construction of a gasholder at Milwaukee and Clinton Sts. to the CAMDEN IRON WORKS, Camden, N. J., at approximately $30,000.

Oakland, Calif.—The Pacific Gas & Electric Co. plans to construct a new boiler house at First and Market streets. John A. Brittain, 445 Sutter St., San Francisco, is Gen. Mgr.

BRIDGES

Lawrence, Mass.—The State Senate has passed the bill authorizing the city of Lawrence to expend $800,000 for the construction of a bridge over the Merrimac River, in the central part of the city. The new bill takes the place of an old one which authorized the expenditure of $500,000. An additional expenditure of $300,000 is authorized under the present bill.

Barkhamstead (Pleasant Valley post office), **Conn.**—An appropriation of $35,000 has been voted by this town to rebuild the bridge over a branch of the Farmington River. Delos O. Hart is First Selectman.

Shelton, Conn.—The towns of Huntington and Stratford have each made an appropriation of $5000 for the construction of a concrete bridge over Far Mill River. Edward R. Allen is First Selectman of Huntington. Rollin A. Curtiss is First Selectman, of Stratford.

Lestershire, N. Y.—The taxpayers have voted in favor of constructing a bridge over Choconut Creek at West Main St. Estimated cost, about $5000.

Leyden, N. Y.—The citizens have voted in favor of issuing $6000 in bonds to construct a concrete arch bridge over the Sugar River.

✚New York, N. Y.—(Borough of Bronx)—The Department of Bridges, Borough of Manhattan, has awarded the contract to the RIVERSIDE CONTRACTING CO., 39 Cortlandt St., New York, for constructing Unionport Bridge, over Westchester Creek, at $9616. Noted June 18.

Oswego, N. Y.—The Town Boards of Oswego and Volney, N. Y., have voted in favor of constructing a bridge over the Oswego River at Oswego. E. A. Howard, Oswego, is County Supt. of Highways.

Camden, N. J.—See item under Miscellaneous: Elimination of Grade Crossing—Camden, N. J.

Keyport, N. J.—The Jersey Central Traction Co. and the Board of Chosen Freeholders will jointly construct a new bridge over Matawan Creek at West Keyport. The structure will be about 60 ft. wide, and will include a lift span.

✚Rahway, N. J.—The Board of Chosen Freeholders has awarded the contract for the construction of a reinforced-concrete, arch bridge over the Rahway River at St. George Ave. to the J. F. SHANLEY CO., Newark, N. J., at $18.167.

Doylestown, Penn.—The County Commissioners have approved plans for a reinforced concrete bridge over Iron Works Creek, Northampton, Township.

✚Guthsville, Penn.—The County Commissioners have awarded the contract to GEORGE H. HARDNER, Allentown, Penn., for constructing a concrete bridge over the Jordan River at Guthsville. Bids were opened July 9.

Nanticoke, Penn.—Bids were received, June 26, by F. R. Hendershot, County Controller, Wilkes-Barre, Penn., for constructing the proposed bridge between Nanticoke and West Nanticoke, over the north branch of the Susquehanna River. The bids follow: Penn Bridge Co., Beaver Falls, Penn., $323,000; Lathrop, Shea & Henwood, Scranton, Penn., $255,200; Thomas Sheehan, Hagerstown, Md., $347,051; Pennsylvania Steel Co., Steelton, $287,750; James McLinden & Co., Anglesea, N. J., $329,200; Whittaker & Deihl, Harrisburg, $292,000; C. H. Reimand, Bloomsburg, $299,500; D. M. Rosser, Kingston, $294,320. Noted June 25.

Somerset, Penn.—(Official)—Bids will be received until noon, July 30, by the County Commissioners, Somerset, for constructing six bridges.

Yukon, Penn.—Sewickley Township will erect a bridge over Little Sewickley Creek, near Yukon. Estimated cost, $5000.

Wilkes-Barre, Penn.—Plans have been submitted to the City and County Commissioners, Wilkes-Barre, for the bridge to be constructed at Market St.

Wilkes-Barre, Penn.—(Official)—Bids were received July 7 by the city for constructing the Butler St. viaduct. The lowest bid was submitted by the C. M. Neeld Construction Co., Pittsburgh, Penn., at $82,788.

Mount Holly, N. C.—The County Commissioners, Mount Holly, have approved plans prepared by the Victoria Bridge & Iron Co., Roanoke, Va., for the proposed bridge over the Catawba River. Estimated cost, $20,000. Noted July 9.

Winston-Salem. N. C.—The Forsyth County Commissioners, Winson-Salem, in conjunction with the Yadkin County Commissioners, plan to construct a steel bridge north of Conrad's Ferry. Estimated cost, $25,000.

Bowman, Ga.—(Official)—Bids will be received until Aug. 24 by the County Commissioners of Elbert and Madison Counties for the construction of a steel bridge to have three 80-ft. spans, and four piers and two abutments requiring 400 cu.yd. of concrete. The contract will be awarded at the bridge site at noon, on Aug. 24. Plans and specifications are on file at the office of the Good Roads Department, University of Georgia, Athens, Ga. Searcy B. Slack, Engr.

Fort Lauderdale, Fla.—The Dade County Commissioners, Miami, plan to construct a steel rolling lift bridge over the New River at Fort Lauderdale. It will be 170 ft. long. Estimated cost, $15,000.

Birmingham, Ala.—Bids will be received until July 25, by W. H. Courtenay, Ch. Engr., Louisville & Nashville R.R., Louisville, Ky., for the construction of a reinforced concrete viaduct on First Ave. from 26th St. to 32d St., Birmingham. Estimated cost, $350,000.

Lyons, Ala.—The County Commissioners, Lyons, have had plans prepared for the concrete bridge to be constructed over the Altamaba River. It will be 506 ft. long.

New Orleans, La.—The city opened bids, July 13, for constructing a lift bridge over the Old Basin at Broad St. The bids follow: Blodgett Construction Co., $30,990; Modern Steel Structural Co., $31,400; Penn Bridge Co., Beaver Falls, Penn., $26,800; Sterling Engineering Co., $25,985; Midland Bridge Co., $27,779. Bids were opened July 9.

✚Shreveport, La.—The contract has been awarded by the parish to the BLODGETT CONSTRUCTION CO., Kansas City, Mo., for the construction of a steel drawbridge across Twelve Mile Bayon, five miles north of Shreveport. J. T. Bullen is Parish Engr.

Memphis, Tenn.—Bids were received, July 7, by the Board of City Commissioners for constructing a reinforced concrete culvert across Front St. and the main outfall for Bayou Gayoso, as follows: Koehler Bros. and Fowler Co., $29,363; G. O. White, Memphis, $25,085; Thomas Harmon and Hickey Bros., $39,321; Noll Construction Co., $37,700. This work is in connection with the North Memphis Levee Project.

Rotherwood, Tenn.—The Sullivan County Court, Bristol, Tenn., July 6, appropriated $5000 for the construction of a steel bridge over the river at Rotherwood, on the Hawkins County line.

✚Sevierville, Tenn.—(Official)—The Sevier County Road Commissioners, July 17, awarded the contract to the LUTEN BRIDGE CO., Nashville, Tenn., for two concrete bridges, at about $5000. F. G. Phillips is Engr.

Whitesburg, Ky.—Plans are being prepared by the Central Steel & Iron Construction Co., Evansville, Ind., for five steel bridges to be constructed in Letcher County. Noted May 14.

Akron, Ohio—Joseph A. Gehres, City Engr., has estimated the cost of repairing the Mill St. Viaduct, at $6000.

✚Columbus, Ohio—The contract has been awarded to the CAPITOL CONSTRUCTION CO., Columbus, for flooring the Dodridge St. Bridge, at about $5000.

Fremont, Ohio—William Schepflin, County Surv, Fremont, hs completed plans for the Tindall Bridge, over the Sandusky River, south of Fremont. It will be 350 ft. long. Noted May 7.

Hamilton, Ohio—Bids are being received by the County Auditor, Hamilton, Ohio, for constructing a steel or concrete bridge over the Miami River at Woodsdale.

Lima, Ohio—The City Council has approved plans by Chester & Fleming, Engrs., Pittsburgh, Penn., for the bridge to be constructed at Pine St. Estimated cost, $30,000. Noted July 9.

Mount Gilead, Ohio—Bids will be received until noon, Aug. 7, by C. O. Higgins, County Audr., Mount Gilead, for constructing two bridges, one 108½ ft. long and 16 ft. wide in Chester Township and one 60 ft. long and 16 ft. wide in Washington Township.

✚New Philadelphia, Ohio—(Official)—Bids were received, July 13, by R. H. Missdorfer, County Audr., New Philadelphia, for constructing the 100-ft. concrete arch bridge at Welling's Crossing. Contracts have been awarded as follows: Superstructure, including floor, to the MASSILLON BRIDGE CO., Massillon, Ohio, at $3140; substructure, to M. WARDWELL, at $3 per cu.yd. for wet excavation; $7.50 per cuyd. for concrete, 50c. for piling and 60c. for embankment. Noted June 18.

Salem, Ohio—The county plans to construct bridges in Unity, Fairfield and Salem Townships, along the route of the proposed road, to be known as Governor Cox Main Market Route No. 14.

Sciotoville, Ohio—The Chesapeake & Ohio Ry. Co. has chosen Sciotoville as the site for its proposed bridge across the Ohio River.

Boonville, Ind.—The County Commissioners, July 8, rejected all bids for the construction of 15 steel bridges in Warrick County. The lowest bid submitted was that of G. & R. Dedman, Boonville, at $9950. Noted June 25.

New bids will be received by the County Commissioners, Boonville, until Aug. 4.

Elkhart, Ind.—The County Council, Goshen, Ind., has appropriated $7400 for repairs to the North Main St. Bridge in Elkhart.

+Indianapolis, Ind.—Bids were opened, July 10, by the County Commissioners for constructing the West Washington St. Bridge. The contract has been awarded to the NATIONAL CONCRETE CO., Indianapolis, at $331,110. Noted JULY 2.

Mazon, Ill.—Y. W. Stine, Supt. of County Highways, Mazon, has completed plans for the proposed county bridge in Maine Township. Estimated cos, $5000.

Iowa City, Iowa—The Commissioners of Johnson County, Clinton, Iowa, plan to ask for bids soon for the proposed reinforced concrete bridge over the Iowa River at Burlington St., Iowa City. Estimated cost, $50,000. Noted June 25.

Mason City, Iowa—Bids will be received until July 24 by the County Auditor, Mason City, for constructing a 90-ft. steel highway bridge in Falls Township.

+Coffeyville, .Kan.—The County Commissioners have awarded the contract to the WESTERN BRIDGE CO., Harrisonville, Mo., for bridge repairs, at $7888.

Lindsburg, Kan.—New bids are asked until Aug. 12 by J. W. Quinn, County Clk., McPherson, Kan., for constructing the proposed bridge over Smoky Hill River, at Lindsburg. Estimated cost, $16,000. Noted June 25.

Independence, Kan.—Bids will be received until noon, July 27, by the Montgomery County Commissioners, Independence, for constructing 50 bridges and culverts. Gerald A. Otwell is County Clk.

Wichita, Kan.—The citizens, Aug. 4, will vote on the proposition to issue $15,000 in bonds to construct a concrete bridge between Central and South Riverside Parks. Bert C. Wells is City Engr.

Lexington, Neb.—The County Commissioners of Dawson and Phelps Counties have rejected bids for the bridge across the Platte River at Lexington, in Dawson County, and for a bridge across the same river at Overton, Dawson County. Estimated cost of each, $50,000. New bids will be asked. Noted June 11.

North Platte, Neb.—The citizens have voted to issue $12,000 in bonds to aid in the construction of a bridge over the North Platte River.

+Kalispell, Mont.—The county has awarded the contract to the MINNEAPOLIS BRIDGE CO., Minneapolis, for constructing the proposed steel bridge over Cut Bank River, at $8050.

Independence, Mo.—The County Court, July 9, opened bids for the concrete approaches to the bridge on the Blue Ridge Boulevard. The lowest bid was submitted by A D. Ludlow, at $10,078. Noted May 28.

+Springfield, Mo.—The Green County Court, Springfield, has awarded the contract to E. L. MEEKS for constructing 11 bridges in various parts of the county at $6436.

Denison, Tex.—The citizens have voted to issue $25,000 in bonds for the purpose of constructing a viaduct across the railroad yards

Houston, Tex.—Plans are being prepared for the construction of two bridges, one over White Oak Bayou at Taylor St., and one over Little White Oak Bayou at Wrightwood Ave. Estimated cost, $20,000 each. Frank L. Dormant is City Engr.

Tulsa, Okla.—The Commissioners of Tulsa County plan to award contracts in August for constructing 10 bridges in various parts of the county. Estimated cost, $12,000. R. K. Hughes, Tulsa, is County Engr.

Alpine, Idaho—Bids are being received by the Bridge Commissioners, care of Theodore Turner, Pocatello, Idaho, for constructing the proposed bridge over the south fork of the Snake River at Alpine.

Florence, Ariz.—The Commissioners of Pinal County, Florence, plan to construct two bridges over the Gila River, one 530 ft. long at Kelvin, and one 417 ft. long at Winkelman.

Seattle, Wash.—The citizens have voted to issue bonds for constructing two of the five proposed bridges over Lake Washington Canal. One bridge will be located at 15th Ave. N. W. and one at Fremont. Estimated cost, $479,500 and $350,000, respectively. Plans for both structures have been completed. A. H. Dimock is City Engr. Noted Nov. 13, 1913.

McMinnville, Ore.—Bids will be received until July 24 by the County Commissioners, McMinnville, for constructing two steel bridges across the Yamhill River at Dayton and McMinnville. Estimated cost, $30,000. Noted June 11, under Dayton, Ore.

Oregon City, Ore.—C. W. Raymour has submitted the lowest bid to the County Commissioners for constructing a steel bridge, at $7993.

+St. Helen, Ore.—The county has awarded the contract to the AMBROSE BIRDSALL CO., Portland, for constructing two steel bridges, at $5049.

Chico, Calif.—Bids will be asked soon by the Trustees of Chico, and the Board of Supervisors of Butte County, for the construction of a steel and reinforced concrete bridge over Big Chico Creek at Chico. M. C. Polk, Chico, is County Surv.

+Durham, Calif.—The Board of Supervisors of Butte County, Oroville, has awarded the contract for the construction of the bridge at Durham, Calif., to the CHICO IRON WORKS, Chico, Calif., at $12,000.

Madera, Calif.—The Board of Supervisors of Madera County has adopted plans for nine steel and concrete bridges. Leonard & Day, Rialto Bldg., San Francisco, and Post & Thomas, Los Angeles, are Engs.

Maryville, Calif.—C. A. Trow, Engr., Maryville, has completed plans for the proposed bridge to be constructed by Yuba County across the Yuba River. Estimated cost, $12,000. Noted April 23.

Ottawa, Ont.—Bids will be received by the Secretary of the Board of Control until 4 p.m., July 28, for constructing the substructure of Billings Bridge. Archibald Currie is City Engr.

Virden, Man.—Bids will be received by William Whiteford, Secy.-Treas., Virden, until 6 p.m., July 29, for constructing reinforced concrete bridges on North 14-11-29 and East 15-11-29, and one rubble masonry bridge on East 28-12-25, in the Rural Municipality of Wallace. Information may be obtained at the Highway Commissioners' office, Parliament Bldg., Winnipeg, Man.

WATER SUPPLY AND IRRIGATION

Amherst, N. H.—A bond issue for $25,000 for the construction of a water system was voted down at a recent election. The town has granted a charter to a company which is being formed for the installation of a water works.

★ Boston, Mass.—(Official)—Bids will be received by the Metropolitan Water and Sewerage Board, 1 Ashburton Pl., until 1.30 p.m., July 27, for constructing a steel tank 100 ft. in diameter and 44 ft. 3 in. high. Dexter Brackett is Ch. Engr. Noted July 9.

+Boston, Mass.—The contract for laying 7000 ft. of 30-in. water main in Columbus Ave. has been awarded by the Public Works Department to M. DeSISTO, at $15,471. Other bidders: William Barrett Co., $18,082; Charles J. Jacobs Co., $18,260; M. Russo & Son, $19,242; Anthony Baruffaldi, $19,311; Charles M. Callahan, $20,150; M. H. Kelley, $20,658; Northern Construction Co., $23,117; John T. Shea, Jr., $24,265; Caruso & Bruni, $28,327; John H. Broderick, $29,617; Hugh Nawn Contracting Co., $35,675. Bids opened July 15. L. K. Rourke is Comr. of Pub. Wks. Noted July 9.

(Official)—Bids will be received by the Metropolitan Water and Sewerage Board until 1:30 p.m., July 27, for laying 12,000 ft. of 24-in. c.i. water pipe in Boston, Quincy and Milton. Henry P. Walcott is Chn.

+Dalton, Mass.—The contract for laying about two miles of 12 and 14-in. water pipe has been awarded to DAVID DWYER, Dalton, at $9000.

Lenox, Mass.—The Lenox Water Co. contemplates building a reservoir below the present one in Richmond. William D. Curtis is Pres.

West Springfield, Mass.—Estimates are being received on plans drawn by Bliss & Lavalle, Springfield, for the construction of a dam on the Westfield River for the Rampogue Ice. Co. A power house will also be built, in which three turbine water wheels will be set.

New Britain, Conn.—Plans have been prepared by Unkelbach & Perry, 162 Main St., for the construction of a water system at the plant of Landers, Frary & Clark. A concrete tank with a capacity of 240,000 gal. and a brick pump house will be constructed.

★Gilbertsville, N. Y.—(Official)—Bids were received, July 15, by Joseph T. Gilbert for constructing a diversion dam, a channel and a pipe line as follows: Bonney & Hamilton, Rochester, $21,856 (low bid); Suburban Engineering Co., New York, $23,957; J. D. Tuller, Auburn, $24,892; E. H. Brown, Hempstead, $27,400; D. I. Snell, Canajoharie, $28,836; Oliver Hurst, Fort Hunter, $31,946; Charles Kiehm, Utica, $32,963; Mason-Hilton Co., New York, $33,791; Fillebrown-Taylor Co., New York, $36,205; John R. Baxter, Jr., Utica, $38,155; and J. W. Heller, Newark, N. J., $38,978. Noted July 9.

Lestershire, N. Y.—Bonds for the improvement of the water system have been voted by the citizens. S. Firestone, Rochester, is the Engr. Noted June 4.

+Harrison, N. J.—The contract for furnishing c.-i. water pipe and valves has been awarded to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., New York, N. Y., at $6697. Noted July 2.

Newark, N. J.—The Board of Freeholders has ordered the preparation of plans and specifications for the rebuilding of the filtration beds at the Overbrook Hospital. Noted May 21.

★Dayton, Penn.—(Official)—Bids will be received by the Borough of Dayton until 8 p.m., July 30, for laying 4334 ft. of 6-in. c.-i. water pipe and 6260 ft. of 4-in. c.-i. pipe with gates and hydrants. Robert H. Wilson, Saltsburg, Penn., is Engr.

★Pittsburgh, Penn.—(Official)—Bids will be received by the City Controller, Municipal Hall, until 10 a.m., Aug. 6, for laying c.i. water pipe and appurtenances in the Woods Run section and in the Lawrenceville section. For details see advertisement under "Contracts To Be Let." Robert Swan is Dir., Dept. of Pub. Wk

Punxsutawney, Penn.—The City Council will construct a municipal water system. Plans are now being prepared. Noted Apr. 2.

+★Greensboro, Md.—The contract for constructing a water system has been awarded by the city to E. J. JONES & CO., Dover, Del., at $15,475. Bids opened July 9. Noted July 2.

Washington, D. C.—Bids will be received by the District Commissioners until July 29 for furnishing 5000 or more water meters.

Norfolk, Va.—Bids will be received by the Water Department until Aug. 1. for furnishing 5300 meters.

Montgomery, Ala.—The city will soon be in the market for 300 tons of 6-in. c.-i. water pipe, 85 six-in. and 15 four-in. three-way water plugs.

★**Memphis, Tenn.**—Meers & Dayton, Dayton, Ohio, were low bidders at $91,976 for constructing a pumping station. Bids were opened July 14. Noted June 25.

Hazel, Ky.—According to press reports, Claude Orr, Crossland, Ky., will install a water system at Hazel.

Akron, Ohio—The low bidder for laying c. i. pipe under Contract No. 56, for which bids were opened July 3, was W. B. Smith, Cleveland, at $12,419. Noted July 2.

Bluffton, Ohio—Improvements will be made to the municipal water system and electric-light plant. The estimated cost is $20,000.

Columbus, Ohio—(Official)—Bids will be received by S. A. Kinnear, Dir. of Pub. Ser., until noon, July 28, for furnishing c. i. valve boxes, and for furnishing c. i. pipe and special castings.

London, Ohio—Bids will be received until July 25 for the construction of a water system for the new Ohio Penitentiary at London. R. Winthrop Pratt, 708 Hippodrome Bldg., Cleveland, is the Engr.

Norwood, Ohio—Bids will be received about Aug. 7 for rebuilding the water works and electric light plant. The estimated cost is $62,000. Plans have been prepared by G. W. Drach, Arch., and Walter G. Franz., Consult. Engr., Cincinnati.

✚**Portsmouth, Ohio**—(Official)—Contracts for furnishing c.i. pipe, etc., have been awarded as follows: UNITED STATES CAST IRON PIPE & FOUNDRY CO., at $21.95 per ton on standard pipe, f.o.b. Portsmouth, 2400 ft. 8-in., 3000 ft. 6-in. and 12 ft. 16-in. DARLING PUMP & MANUFACTURING CO., all f.o.b. Portsmouth, one 12-in. bell gate at $30.50, six 8-in. bell gates at $16.90, six 6-in. bell gates at $11.20, and fifteen 4-in. bell gates at $7.20. JAMES B. CLEW & SONS, c.i. specials, 2¾c. per lb., f.o.b. Portsmouth. A. P. SMITH MANUFACTURING CO., four 24x6-in. combination sleeves at $57.20. THE BOURBON COPPER & BRASS CO., 21 hydrants, f.o.b. Portsmouth, at $24. STANDARD SUPPLY CO., 12,000 lb. of pig lead at 4½c., and 24 valve boxes at $2.73; and JAMES B. CLEW & SONS, one 30-in split sleeve, $75; one 24-in. split sleeve, $60; one 30-in. split sleeve, $38, bell piece; one 24-in. split sleeve, $34, bell piece. Bids opened July 9. Noted July 2.

St. Clairsville, Ohio—The installation of a water system is being considered by the City Council.

Grand Rapids, Mich.—John W. Bonnell contemplates installing a water system at Woodcliffe, at an estimated cost of $6000.

Port Huron, Mich.—Bids will be received by the City Clerk, until July 27, for constructing a new compound pumping engine.

Kewanee, Ill.—See item under "Sewers."

Lockport, Ill.—Bids will be received by the City Council until Aug. 3 for constructing a standpipe with a capacity of 100,000 gal.

Morrison, Ill.—Bonds for $8000 for making improvements and extensions to the water system were voted at a recent election.

★**Pekin, Ill.**—(Official)—Bids will be received by the Pekin Water Co., at the office of Alvord & Burdick, Engrs., Hartford Bldg., Chicago, until 10 a.m., Aug. 12, for removing the present steel tank from the supporting stone tower and constructing a new steel tank thereon. W. E. Lautz is Secy.

Woodhull, Ill.—Bids are being received for the extension of the municipal water system and for the construction of a new reservoir.

West Allis, Wis.—Bids will be received by the Board of Public Works until Aug. 12 for laying water mains with hydrants and connections in Worden and 53d Aves.

Albia, Iowa—The Council will construct a 4-in. pipe line from the public highway to Cedar Creek.

Charles City, Iowa—Plans have been prepared by W. S. Beattie for the erection of two pumping stations. The estimated cost is $7500.

Davenport, Iowa—According to press reports, bids are being received for furnishing a 6,000,000-gal. pump for the Rock Island water works plant.

Hinton, Iowa—The installation of a water system to cost $6000 is being considered by the Council.

✚**Canton, Minn.**—The contract for installing a water system has been awarded to WILLIAM C. FRASER, Hackney Bldg., St. Paul, Minn., at $8400.

Hibbing, Minn.—Bids will be received by the Water and Light Board until July 28 for reconstructing and overhauling the water and lighting system. The works will cost about $20,000.

Marble, Minn.—See item under "Sewers."

Paynesville, Minn.—The contract has been awarded to the MINNEAPOLIS STEEL & MACHINERY CO., at $4869, for constructing a steel tower and water tank.

Arma, Kan.—(Official)—The citizens voted at a recent election to spend $8000 for extensions to the water system. Albert C. Moore, Bartlett Bldg., Joplin, Mo., is the Engr. Noted July 9.

McCune, Kan.—The city contemplates spending $25,000 for the installation of a water works. W. H. Gracey is City Clk.

✚**Topeka, Kan.**—The contract for laying about one mile of four-in. water main has been awarded to GUSTAFSON & CO., at $4381. Noted Apr. 30.

Ansley, Nebr.—(Official)—Bids will be received until noon, Aug. 3, for constructing a pumping station at Ansley for the water works. The Martz Engineering Co., 416 First National Bank, Lincoln, is the Engr.

★**Bennet, Neb.**—Plans are being prepared by the Martz Engineering Co., 416 First National Bank Bldg., Lincoln, for the construction of a water system to cost $10,000.

Clatonia, Neb.—At a recent election the citizens voted to issue $9200 in bonds for the installation of a water system.

✚**Herman, Neb.**—(Official)—Contracts for constructing a water system have been awarded to DRAKE WILLIAMS, for the stand pipe; to BRAMHALL & SON, for the pump house, and to the ELKHAM CONSTRUCTION CO. for the pipe line. Bids opened July 6. Noted June 25.

Wayne, Neb.—(Official)—Bids will be received until Aug. 1 by the Chairman of the Finance Committee for $7000 in water works bonds. J. M. Cherry is City Clk.

Winner, S. D.—(Official)—Bids will be received by Claude Maule, City Audr., until July 27, for constructing a water system. About 42,000 ft. of 8-in. wooden pipe, 5000 ft. of 4-in. wooden pipe will be laid, and eight wells driven.

✚**Carrington, N. D.**—(Official)—Bids were received July 10 for extending the water and sewer systems. Contracts have been awarded to G. W. HAGGART CONSTRUCTION CO., Fargo, at $14,875, for laying water mains and $12,599 for laying sewer pipe. H. L. Winterer is City Audr. Noted July 2.

New England, N. D.—At a recent election the citizens voted to spend $7000 for the construction of a water system. Noted June 4.

✚**Williston, N. D.**—(Official) — Bids were received June 22 for constructing a 750,000-gal. slow sand filtration plant. The contract has been awarded to G. I. HARDING, Williston, at $28,759. H. R. Evany is City Engr. Noted June 18.

Clydepark, Mont.—Plans have been prepared and bids will soon be received for the construction of a water system to cost $15,800. Noted June 25.

✚**Helena, Mont.**—The contract for constructing canal C highline ditch has been awarded by the Montana Reservoir & Irrigation Co. to BOOMER & HUGHES, Spokane, Wash. The ditch is nine miles long. A new pumping plant will also be installed.

Three Forks, Mont.—According to press reports bids will soon be received for the construction of a water system. Bonds for $45,000 for this purpose have been sold. Noted May 14.

Butler, Mo.—Plans are being prepared by Harper & Stiles, Grand Ave. Temple, Kansas City, Mo., for extensions to the water works. The city recently bought the private water company for $32,500 and will spend $40,000 on extensions. Noted June 18.

Charleston, Mo.—The contract for laying six miles of c.i. water pipe has been readvertised. Bids will be received until 7 p.m., Aug. 6, by O. W. Joslyn, Mayor, for constructing a water system. Frank L. Wilcox, St. Louis, Mo., is the Engr. Noted June 25.

Neosho, Mo.—At an election held July 14 bonds for $60,000 for the extension of the water system were voted. Albert C. Moore, Bartlett Bldg., Joplin, Mo., is the Engr. Noted July 2.

✚**Springfield, Mo.**—The contract for sinking two wells has been awarded by the Springfield Water Co. to P. L. CROSSMAN & SON, Carthage. The wells will be about 2000 ft. deep. Noted June 25.

Eureka Springs, Ark.—The Improvement Board has sold bonds for the construction of a dam and filtration plant for the water works. Albert C. Moore, Bartlett Bldg., Joplin, Mo., is the Engr.

Paragould, Ark.—Bids will be received by the Secretary, Board of Public Works, until July 30, for making extensions to the water system. The estimated cost is $28,000. Rollins & Westover, Kansas City, Mo., are the Engrs. Noted May 28.

Rison, Ark.—An improvement district has been organized and Albert C. Moore, Bartlett Bldg., Joplin, Mo., has been retained as engineer to design and supervise the construction of a municipal water works and electric light plant, to cost about $40,000.

Cotulla, Tex.—The citizens contemplate issuing bonds for $14,000 for the installation of a water system.

Edinburg, Tex.—The Valley Reserve Canal Co. and the La Lomite Irrigation & Construction Co. will construct an irrigation system to irrigate 20,000 acres of land in Hidalgo County. Fred Warner, Edinburg, is interested.

Livingston, Tex.—An election will be held Aug. 20 to determine whether or not the city will issue bonds for $25,000 for the construction of a water system. Noted Jluy 9.

New Boston, Tex.—Bids will be received by the City Council until Aug. 3 for installing a water system. Nagel & Petersen, Muskogee, Okla., are the Engrs.

Terrell, Tex.—The City Council is contemplating improving the water works and the water supply.

Tulsa, Okla.—The city contemplates constructing a pipe line 50 miles long to the Grand River for the water supply. The estimated cost is $1,000,000.

Boulder, Colo.—The City Council will construct a dam at Silver Lake, at an estimated cost of $50,000, for the city water supply.

Puyallup, Wash.—Bids will soon be received by the City Council for c.i. pipe to renew the greater portion of the water system at Puyallup.

Seattle, Wash.—Bids will be received by A. L. Valentine, Chn. Bd. of Pub. Wks., until Aug. 7, for furnishing from 5000 to 10,000 water meters.

The City Council contemplates laying water mains in 38th Ave. South, at a cost of $18,747.

✚The contract for constructing a concrete lining of the water tunnel under Lake Union has been awarded by the Board of Public Works to MEACHAM & BABCOCK, Central Bldg., Seattle, at $193,449. Noted July 9.

Bend, Ore.—The Bend Water, Light & Power Co. contemplates making extensive improvements to its plant. A concrete reservoir with a capacity of 100,000 gal. will be erected.

Molalla, Ore.—Dennis & Christenson, at $6874, were low bidders for constructing a water system at Molallo.

Modesto, Calif.—(Official)—Bids will be received by R. A. Edwards, Engr., until July 31, for plans and specifications for a structure at Gasburg Crossing, on the Main Canal of the Modesto Irrigation District. A steel siphon of 16 ft.

diameter, 730 ft. long, or a steel or concrete flume structure, the same length, will be the type of structure. Noted July 9.

+**San Francisco, Calif.**—(Official)—The Board of Public Works has awarded a contract to the UTAH CONSTRUCTION CO., at $151,499, for constructing a road from Hog Ranch to the Hetch Hetchy damsite, in connection with the Hetch Hetchy Project. M. M. O'Shaughnessy is City Engr.

+**Turlock, Calif.**—The contract for constructing 1½ miles of canal has been awarded by the Directors of the Turlock Irrigation District to A. CHATOM, at $10,000. Noted June 18.

Dawson, Yukon Territory—(Alaska)—The citizens at a recent election voted $200,000 in bonds for the construction of a water system.

Montreal, Que.—Bids will be received July 31, by L. N. Senecal, Secy. Bd. of Comrs., for installing a 24,000,000-gal. pump at the water works. Noted July 9.

Listowel, Ont.—The city contemplates installing a new pump, laying water mains for fire protection and making general improvements to the water system.

Ottawa, Ont.—Bids will be received by R. C. Desrochers, Secy. of the Dept. of Pub. Wks., Ottawa, until 4 p.m., Aug. 10, for the construction of steel gates, towers and operative machinery for regulating the dam, Big Chaudiere Falls, French River, Ontario.

+**Edmonds, B. C.**—The contract for furnishing 30,000 ft. of 4-in. pipe has been awarded to ROBSON, GODSON & CO. at $24,000.

Vancouver, B. C.—The Water Works Committee contemplates making extensions to the present water system at an estimated cost of $64,000.

SEWERS

Boston, Mass.—(Official)—Bids for furnishing 60-in. c.i. pipe and special castings for Section 43 of the Metropolitan Sewerage Works were received by the Metropolitan Water and Sewerage Board, as follows: U. S. Cast Iron Pipe & Foundry Co., Morris Bldg., Philadelphia, Penn., $17,755; Camden Iron Works, Camden, N. J., $17,674; Warren Foundry & Machine Co., 11 Broadway, New York, N. Y., $16,437. Charles D. Smith is Chief Engr.

+**Boston, Mass.**—The contract for the sewer construction in Manthorne Road and in a private section of land, West Roxbury District, was awarded to ANTONY CEFALO, at $5287. Other bids were: Martino De Matteo, $5339; William L. Dolan, $5360; Charles Latorella, $5397; Frank Drinkwater, $5842; Louis Balboni, $5865; M. De Sisto, $5944; John Guarino, $6032; West Roxbury Trap Rock Co., $6278; James Driscoll & Son Co., $6466; McCarthy & Walsh, $6989; A. M. Cusick, $7753. L. K. Rourke is Comr.

Boston, Mass.—Bids will be received by the Department of Public Works, until July 27, for sewer construction in Rowe St., West Roxbury. L. K. Rourke is Comr.

+**Boston, Mass.**—The contract for constructing sewers in Lake St. has been awarded by the Department of Public Works to WILLIAM L. DOLAN, at $6840. Noted June 11.

Maynard, Mass.—The city has commissioned F. A. Barbour, South Boston, to prepare plans for a sewer system.

Warren, R. I.—The town has decided to install a sewer system, at an estimated cost of $46,000. Charles Y. Chase, 75 Westminster St., Providence, is Engr.-in-Charge. Richard W. Smith is Town Clk. Noted July 9.

New Haven, Conn.—Bids will be received until July 27 by Frederick L. Ford, City Engr., for the construction of sewers in Atwater and Dover Sts.

Binghamton, N. Y.—The city is considering the construction of storm water and sanitary sewers in the Sixth Ward. John A. Gills is City Engr.

+**Buffalo, N. Y.**—The contract for constructing a 9½-ft. brick trunk sewer in Hertel Ave. has been awarded by the Board of Public Works to JOSEPH F. STABELL, at $93,983. Noted June 11 and June 25.

Buffalo, N. Y.—The City Council has ordered the construction of a 4-ft. 4-in. sewer in Colais St., from Mineral Spring Road to the Pennsylvania R.R.

★+**Glen Cove, L. I., N. Y.**—(Official)—The Glen Cove Sewer Commission has awarded to JOSEPH B. SIGRETTO & CO., New York, N. Y., the contract for completing the construction of the sewer system and disposal works. Johnson & Fuller, 150 Nassau St., are Consulting Engrs. Noted May 21.

+**Goshen, N. Y.**—Press reports state that the contract for constructing a sewer system and sewage disposal plant has been awarded to the PEEKSKILL CONSTRUCTION CO., Peekskill, N. Y. Noted May 28.

★+**Medina, N. Y.**—(Official)—The contract for constructing an addition to the sewer system has been awarded by the Board of Sewer Commissioners to FREDERICK A. GOTT, Hamburg, N. Y., at $5500. Frank J. Kearney is Clk.

Mohawk, N. Y.—The citizens have voted to issue bonds for $15,000 for the purpose of extending the system of sewers.

New York, N. Y.—(Borough of Queens)—The lowest bid received by Maurice E. Connolly, Borough Pres., for constructing a temporary drain from the present sewer at Fifth Ave. to Powell's Cove was that of Clancy & Van Alst, at $28,167.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough of Manhattan, until 2 p.m., July 27, for constructing, improving and altering sewers in various streets.

Niskayuna, N. Y.—Press reports state that the Town Board has decided to construct sewers in various streets .

Belleville, N. J.—Bids will be received by the Town Council until July 28 for constructing sewers, with house connections in various streets. Frank T. Shepard, Essex Bldg., Newark, is Town Engr.

★**Newark, N. J.**—(Official)—Bids were received by the Passaic Valley Sewerage Commissioners for constructing part of Section 12 of the main intercepting sewer, as follows: Oscar Daniels Co., New York, N. Y., $20,350; Cauldwell-Wingate Co., New York, N. Y., $213,792; Fusco Construction C Newark, N. J., $185,525; Merrill-Ruckgaber Co. & Maso Hilton &Co., New York, N. Y., $163,335; James S. Fraz New York, N. Y., $135,550; J. F. Shanley Co., Newark, N. $129,589.

+**Erie, Penn.**—The City Council has awarded contracts WILLIS BANCROFT, JR., and JOSEPH McCORMICK & BR for constructing storm sewers in South Erie. The estimat cost is $46,445.

Baltimore, Md.—Bids will be received by the Board Awards, City Hall, until July 29 for the construction sewage treatment plant. The work includes the constructio lateral sewers and house connections in District No. 43- under sanitary contract No. 137, requiring 57,000 lin.ft. vitrified pipe sewer, 8-in. to 18-in. in diameter, and 47,000 li ft. of vitrified pipe connections. Plans are on file at the offi of the Sewage Commission. Ira Remsen, 904 American Bldg is Chn.

+**Dade City, Fla.**—The contract for installing a seweras and water works system has been awarded by the City Council to the J. B. McCRARY CO., Atlanta, Ga. Noted June 11.

+**Birmingham, Ala.**—The contract for constructing sanitary sewers in the East Lake District has been awarded by the Board of Commissioners to JORDAN & PHILLIPS, Birmingham, at $11,454. Julian Kendrick is City Engr. Noted May 28.

+The contract for constructing sanitary sewers in Owenton District has also been awarded to JORDAN & PHILLIPS, at about $9000.

Belzoni, Miss.—Bids will be received by the Mayor and Board of Trustees until Aug. 4 for constructing three miles of vitrified pipe sewers, 8 to 12 in., including manholes, etc.

Lewisburg, Tenn.—See item under "Streets and Roads."

Oakdale, Ky.—The City Council plans to spend $25,000 in sewer improvements. Ray Burks is Engr.

★**Akron, Ohio**—(Official)—Bids will be received by the Director of Public Service, until noon, Aug. 11, for constructing a sewage treatment plant. The work includes the construction of a concrete screen and grit chamber, concrete sedimentation tanks, pumps, pump house and well, concrete flumes, sludge press house, sludge tank chambers, sludge drying beds, main sewer extension, controlling apparatus, sludge removal apparatus, and pipe laying. This is a readvertisement of bids opened on June 16. Ira A. Priest is Clk. Noted May 28.

Conneaut, Ohio—Bids will be received by the Grandview Allotment Co., Conneaut, until July 25, for constructing a sewer system. R. Winthrop Pratt, 708 Hipprodrome Bldg., Cleveland, is Engr.

Cuyahoga Falls, Ohio—Bids will be received by the city until July 25, for constructing a sewage disposal plant. R. Winthrop Pratt, Hippodrome Bldg., Cleveland, is Engr.

Lima, Ohio—The City Council has decided to install a sewage disposal plant. Plans have been prepared.

Miamisburg, Ohio—Bids will be received by the Village Clerk until Aug. 1 for constructing storm water sewers in parts of Sugar, 10th, Fourth, Pearl and Second Sts.

+**Sandusky, Ohio**—The contract for constructing sewers in the West End Sewer District has been awarded to the GLASER & HETRICK CO., Oak Harbor, at $25,005. Noted June 25.

Sandusky, Ohio—J. C. Devine, Alliance, Ohio, submitted the lowest bid, at $73,926, for installing a sewage treatment plant.

Toledo, Ohio—Bids will be received by te Commissioners of Lucas County, Court House, Toledo, until noon, July 29, for constructing a sanitary sewer in sub-district No. 1. Charles J. Sanzenbacher is Audr.

Xenia, Ohio—The city has commissioned the W. J. Sherman Co., 913 The Nasby, Toledo, to prepare plans for the proposed sewage purification plant.

Traverse City, Mich.—(Official)—The item in the issue of July 9, stating that $90,000 bonds had been voted for sewer construction is an error. Bonds for the work were voted down.

Chicago, Ill.—(Official)—Bids will be received by John M. Gillen, Clk. of the Sanitary District, until noon, July 30, for the following: Installing electrical equipment in the 39th St. pumping station; installing steam and water piping in the 39th St. pumping station for a 4000-kw. turbine unit; constructing a concrete block annex to the terminal station at 31st St. and Western Ave.; for installing electrical equipment in the terminal station annex; for delivering power transformers; for delivering four duct insulated lead-covered cable.

+**Champaign, Ill.**—The contract for constructing the storm water sewer system has been awarded by the Board of Local Improvements to ARTHUR BIRT, Decatur, at $12,200.

Evanston, Ill.—Press reports state that the Town Council has decided to construct a system of sewers running west through the city and emptying in the west branch of the canal. A pumping station will also be built.

+**Kewanee, Ill.**—The Board of Local Improvements has awarded a contract to ALBRECHT BROS., Kewanee, at $10,619, for constructing vitrified pipe sewer and laying 8-in. cast-iron water pipe. H. G. Stokes is City Engr.

+**Springfield, Ill.**—(Official)—The contract for constructing the 5-ft. single ring brick sewer has been awarded to WILLIAM SPENCE & SON, Springfield. John S. Schnepp is Mayor. Noted July 9.

New Glarus, Wis.—(Official)—The date for receiving bids for sewer construction has been extended until 7.30 p.m., Aug. 3. Frederick Ott is Village Clk. Noted June 16.

+**South Superior, Wis.**—The contract for constructing various lateral sewers has been awarded to WILLIAM DENSFORT, at $14,700.

+**West Allis, Wis.**—The contract for building an addition to the sewage disposal plant has been awarded to the ESAU & KOENIG CONSTRUCTION CO., at $12,595. Noted June 18.

West Allis, Wis.—Bids will be received by the Board of Public Works until Aug. 1, for constructing lateral sewers in 13 streets. A. R. Obert is City Engr.

+Bettendorf, Iowa—The contract for constructing about three miles of sewers has been awarded by the City Council to the INDEPENDENT CONSTRUCTION CO., at $22,097.

Guthrie Center, Iowa—(Official)—All bids received by the city for constructing sewers and a sewage disposal plant have been rejected. New bids will be received until Aug .1. S. B. Weeks is Clk. Noted June 4.

+Wapello, Iowa—(Official)—The contract for constructing sewers in Sub-Sewage District No. 3 has been awarded to the D. E. KEELER CO., Davenport, Iowa, at $15,707. The Central States Engineering Co., Muscatine, is Engr. Noted July 9.

+Marble, Minn.—The contract for extending the sewer and water system has been awarded to BOYLEN & CO., Virginia, Minn., at $6066.

St. Paul, Minn.—The lowest bid received for constructing the sewer in Park Ave., between South and Maryland Sts., and in a section of Maryland St. was that of O'Neill & Preston, at $5240.

+Topeka, Kan.—The contract for sewer construction in three districts has been awarded by the City Commissioners to JAMES A. PRINGLE, Carthage, Mo., at $86,876. Noted June 18.

Omaha, Neb.—According to press reports ,the city has voted bonds for $44,500 for the purpose of constructing five miles of sewers and for disposal plants.

Carrington, N. D.—(Official)—See item under "Water Supply and Irrigation."

+Carrington, N. D.—The contract for constructing 10,650 lin.ft. of 8-in. sanitary sewers and 26 manholes has been awarded to the HAGGART CONSTRUCTION CO., Fargo, N. D., at $12,599. G. W. Heinmiller is City Engr. Noted July 2.

Charleston, Mo.—Bids will be received by O. W. Joslyn, Mayor, until 7 p.m., Aug. 6, for constructing a sewer system, sewage treatment works and water works. Frank L. Wilcox, Syndicate Trust Bldg., St. Louis, is Engr. Noted June 25.

Hannibal, Mo.—Bids will be received by the City Clerk until Aug. 3 for constructing sewers in Sewer District No. 300. B. F. Smiley is City Engr.

St. Louis, Mo.—Bids will be received by the Board of Public Works until July 24 for constructing sewers in South Gravois Ave. and in the Glaise Creek Sewer District No. 11. William T. Findly is Secy.

Argenta, Ark.—Lund & Hill, Little Rock, Ark., are preparing plans for the proposed sewer system at Argenta.

Austin, Tex.—The City Commissioners are considering the construction of a sewage disposal and incineration plant, estimated to cost $100,000.

Denver, Colo.—The Board of Public Works is considering the construction of sanitary sewers in various streets to cost about $20,000.

Bellingham, Wash.—The lowest bid submitted for constructing lateral sewers in King, Lincoln and other streets was that of Peterson, Webel & Hawkins, at $5982.

Enterprise, Ore.—The city has voted to issue bonds for $20,000 for the purpose of extending the sewer system. The work includes the construction of a septic tank, outlet and main trunk sewer.

Eugene, Ore.—The City Council has ordered the construction of several lateral sewers in various streets.

Portland, Ore.—The city has decided to construct a sewer to be known as the Fulton Park and Carson Heights trunk sewer, and estimated to cost $47,706.

Portland, Ore.—The Sewer Department has had plans completed for sewer construction in two sections of the Montaville District. The estimated cost is $78,000. John H. Hanson is City Engr.

+Burlingame, Calif.—Press reports state the contract for constructing a sewer system has been awarded by the City Council to A. C. HOSE, at about $10,000.

Riverside, Calif.—(Official)—The city will construct a sewer in the Arlington District, to cost about $30,000.

+Sacramento, Calif.—The contract for constructing the reinforced concrete sewage pumping station on the Riverside Road has been awarded by the City Commission to TEICHERT & AMBROSE, Ochner Bldg., at $49,480. Noted July 2.

+San Francisco, Calif.—The Board of Public Works has awarded the contract for sewering and paving of San Bruno Ave., from Olmstead St. to Rahway Ave., to the FAY IMPROVEMENT CO., at $52,790.

Toronto, Ont.—Bids will be received by the Chairman of the Board of Control, until Aug. 4, for constructing Section 4 of the Garrison Creek storm sewer and Division No. 2 of the West Toronto sewer.

+Whitby, Ont.—The following contracts have been awarded in connection with the installation of a sewer system: R. B. STEWART, the excavation and laying of sewers, at $53,443; F. F. FRY, Toronto, the sewage disposal works, at $24,942; ONTARIO SEWER PIPE CO., Mimico, for furnishing the snitary sewer pipe, at about $13,000; and the BLAIR CO., Woodstock, for furnishing the reinforced concrete pipe, at $12,575.

Winnipeg, Man.—Press reports state that the City Council has decided to spend about $70,000 for constructing sewers, sidewalks and pavements.

Nanaimo, B. C.—The city has voted $30,000 in bonds for extending the sewer system.

GARBAGE

Birmingham, Ala.—The Board of City Commissioners plans to construct a crematory in the West End section of the city. Estimated cost, $5000. H. S. Ryall is City Clk.

Bartlesville, Okla.—The citizens will vote in August on the proposition to issue $7500 in bonds for an incinerating plant.

Mimico, Ont.—The City Council is considering the construction of a garbage incinerator.

Stratford, Ont.—The City Council is making arrangements to secure a site on St. Patrick St. for the proposed garbage incinerator.

+Swift Current, Sask.—The contract has been awarded to the A. H. REID INCINERATOR CO., Toronto, by the city for constructing a 15-ton garbage incinerator.

STREETS AND ROADS

+Concord, N. H.—(Official)—The State Superintendent of Highways has awarded the following contracts for road improvements: In Winchester, Amherst and Merrimack Townships, to L. HOFFMAN & SON, Melrose, Mass.; Madison Township, JAMES W. TYLER, Silver Lake, N. H.; Auburn Township, B. PIRINI, Ashland, Mass.; Derry Township, LOUIS DAVIS, Sunapee, N. H. Noted July 9.

Boston, Mass.—Bids will be received until July 24 by the Public Works Department for the construction of bituminous macadam pavement on Kitredge St., West Roxbury District. L. K. Rourke is Comr. of Pub. Wks.

Pittsfield, Mass.—The Board of Aldermen has made an appropriation of $97,000 for the improvement of Waconah St., and one of $4000 for work on Fourth St. A. B. Farnham is City Engr.

+The contract for paving a section of Fenn St. with vitrified brick has been awarded to CROWE & WALSH at $2.90 per sq. yd. Other bids were: George W. Van Vranken, Schenectady, N. Y., $2.97; Ralph Emerson, $2.99; Edward S. Roberts, $3.27.

Hartford, Conn.—Bids were received by the State Highway Commission, July 14, as follows:

Westport Township, about 5840 lin.ft. warrenite (a), amiesite (b), plain concrete (c), reinforced concrete (d) or hassam (e) pavement on the "Old Highway"—Warren Bros. Co., Boston, Mass., (a) $29,710; Charles T. Eastburn Co., Mount Vernon, N. Y., (b) $30,001; Louis Longhi & Bro., Torrington (c) $20,026, (d) $21,036; Connecticut Hassam Paving Co., New Haven, (e) $20,159; B. D. Pierce, Jr., Co., Bridgeport, (c) $20,583, (d) $21,674; A. D. Bridge's Sons, Inc., Hazardville, (c) $20,646, (d) $21,050. (No guarantee in the last bid.)

City of Norwalk, about 4050 lin.ft. warrenite (a), amiesite (b), plain concrete (c), reinforced concrete (d) or hassam (e) pavement on Winfield St.—Warren Bros. Co., Boston, Mass., (a) $18,026; Charles T. Eastburn Co., Meriden, (b) $17,820; Louis Longhi & Bro., Torrington, (c) $12,734, (d) $13,434; Connecticut Hassam Paving Co., New Haven, (c) $11,734; B. D. Pierce Jr. Co., Bridgeport, (c) $12,535, (d) $13,292; A. D .Bridge's Sons, Inc., Hazardville, (c) $12,303, (d) $12,583. (No guarantee in the Bridge's bid.)

Huntington Township, about 5750 lin.ft. native stone macadam (a) or gravel (b) construction on the Huntington Center Road—H. Sanford Osborn, Redding Ridge, (a) $13,184, (b) $7817; John Arborio, New Haven, (a) $10,183, (b) $7641; Bennett N. Beard Co., Shelton, (a) $10,873, (b) $8971; B. D. Pierce Jr. Co., Bridgeport, (a) $12,128, (b) $9309; Louis Longhi & Bro., Litchfield, (a) $10,899, (b) $8050; Goodman & Trumbull Co., Litchfield, (a) $11,314; John de Michiel & Bro., Torrington, (a) $11,866, (b) $8090; A. Brazos & Sons, Middletown, (a) $13,156; Elbert N. Clarke, Milford, (a) $16,653, (b) $12,892. Also about 6750 lin.ft. trap rock macadam (a), native stone macadam (b) or gravel (c) construction on the River Road—A. Brazos Sons, Middletown, (b) $15,798; John Arborio, New Haven, (a) $11,812, (b) $11,979, (c) $9749; Bennett N. Beard Co., Shelton, (a) $12,001, (b) $13,291, (c) $10,806; Goodman & Trumbull Co., Litchfield, (a) $14,628, (b) $15,088; H. Sanford Osborn, Redding Ridge, (a) $13,831, (b) $15,306, (c) $11,374; Olin T. Benedict, Pittsfield, Mass., (a) $12,212, (b) $13,404; John de Michiel & Bro., Torrington, (a) $14,473, (b) $14,378, (c) $10,238; Elbert N. Clarke, Milford, (b) $20,459, (c) $16,764; Louis Longhi & Bro., Torrington, (a) $12,549, (b) $13,909, (c) $11,209; B. D. Pierce Jr. Co., Bridgeport, (b) $14,557 (b) $11,585.

City of Bridgeport and Fairfield Township, about 2235 lin.ft. amiesite (a), warrenite (b), bituminous concrete (c), or asphalt (d) pavement on Brooklawn Ave.—Charles T. Eastburn Co., Mount Vernon, N. Y., (a) $11,215; Warren Bros. Co., Boston, Mass., (b) $10,317, (c) $10,988, (d) $10,719.

Cornwall and Goshen Townships, about 10,150 lin.ft. of native stone macadam (a), 13,550 lin.ft. resurfacing (b) and 2700 tons trap rock in piles (c) on the turnpike—John di Michiel & Bro., Torrington, (a) $14,218, (b) $4553, (c) $4065; Goodman & Trumbull Co., Litchfield, (a) $18,134, (b) $6097, (c) $3794: A. B. Cadwell, New Britain, (a) $19,814; Pocaro Construction Co., Willimantic, (a) $13,145, (b) $2574, (c) $1219; Kellogg & Gregory Co., Danbury, (a) $16,030, (b) $5013, (c) $4065; Caesar A. Rossi, Torrington, (a) $16,143, (b) $5962, (c) $4065; Louis Longhi & Bro., Torrington, (a) $14,962, (b) $7723, (c) $5555; Biacco & Co., Stockbridge, Mass., (a) $16,999, (b) $3387, (c) $2656; A. Brazos & Sons, Middletown, (a) $21,010, (b) $5962, (c) $4742; Wall & Valli, Torrington, (a) $18,599, (b) $5420, (c) $4742.

★Norwalk, Conn.—(Official)—Bids will be received until 2 p.m., Aug. 5, by the Secretary of the Bridge Construction Committee, People's Trust Co. Bldg., for paving the Washington St. Bridge and its approaches with vitrified brick or wood block. A. F. Beard is Chn. of the Bridge Com. J. E. Greiner, Fidelity Bldg., Baltimore, Md., is Consult. Engr.

+Albany, N. Y.—The Board of Contract and Supply has awarded the following contracts for street improvements: Repaving State St. from Capitol Place to Lark St. with asphalt, to JOHN W. DAVITT, at $29,977; improving Glenwood, Oakwood, Maplewood, Parkwood and Erie Sts. from New Scotland to Fairlawn Ave. to ROBERT I. GLEASON, at $43,973; First Ave., from South Pearl to Krank St., to B. F. MULLARKEY, at $21,966; a portion of Liebel St., and Lark St. from Dana to Myrtle Ave., to KENNY & DUMARY, at $4344 and $7239, respectively.

+Buffalo, N. Y.—The Common Council has awarded the contract for paving Downing St. with brick to the ERIE CONTRACTING CO., at $28,000; the contract for paving Elmwood Ave. with asphalt from the Delaware Park Bridge to Amherst St. was awarded to the HENRY P. BURGARD CO., at $18,540.

The Council has ordered the repaving of Lafayette Ave. and Huron St.Francis G. Ward is Comr. of Pub. Wks.

New York, N. Y.—(Official)—Bids will be received until 2 p.m., July 23, by the Department of Bridges, Municipal Bldg., for repairs during the present year to asphalt pavements on the bridges over the Harlem River. F. J. H. Kracke is Comr. of Bridges.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., July 29, by Lewis H. Pounds, Pres. of the Borough of Brooklyn, for improving portions of Fulton, East 16th, 57th and 70th Sts., Nassau Ave. and Roberge Place.

(Borough of Manhattan)—(Official)—Bids will be received until 3 p.m., July 30, by Cabot Ward, Pres. of the Park Bd., Dept. of Parks, Municipal Bldg., for paving and repaving with rock asphalt mastic the walks of Central and other parks in the Borough of Manhattan.

✚Penn Yan, N. Y.—The contract for paving Seneca and Water Sts., has been awarded to CHARLES N. KELLY, at $12,900. Erroneously noted July 16 as Penn Yan, Penn.

Camden, N. J.—The City Council has passed an ordinance providing for the paving of Rose St., from Pear to Everett St., with asphalt. L. E. Farnham is City Engr.

Jersey City, N. J.—The Board of City Commissioners will repave Fleet St. with brick. Charles A. Van Keuren is City Engr.

✚Newark, N. J.—The Board of Freeholders has received the following bids for the improvement of Pompton Turnpike, from Bloomfield Ave. to the Passaic County line, with warrenite pavement, and 8-ft. strips of bitulithic on each side on all grades: STANDARD BITULITHIC CO., $93,806 (awarded contract); Union Building & Construction Co., $95,009; Newark Paving Co., $95,238; Francisco Bros., $96,932; Osborne-Maisellis Co., $98,130. Noted June 25.

✚New Brunswick, N. J.—The following bids were received by the Board of Chosen Freeholders for the construction of the second section of the Roosevelt-Woodbridge Boad: Conrad Sebolt, $7305; T. H. RIDDLE, $7303 (awarded contract); Reilly Bros., $10,522; Liddle & Pfeiffer, $12,279; Thomas F. Dunigan, $11,345; Abraham Jelin, $9627. Noted July 2.

Newton, N. J.—The citizens of Warrington Township have voted a bond issue of $25,000 to be used for road improvements.

✚Paterson, N. J.—The Board of Freeholders has awarded the contract for paving the Hamburg-Paterson Turnpike, between the Reeves and Bloomingdale Bridges, with bituminous macadam, to GEORGE F. BRACKETT, at $16,615. Noted June 11.

★Rahway, N. J.—(Official)—Bids will be received until 8 p.m., Aug. 4, by the Common Council for paving Irving St. and Milton Ave. Franklin Marsh is City Engr. For particulars, see advertisement under Contracts to Be Let.

Woodbridge, N. J.—(Official)—Bids will be received until 8.30 p.m., July 29, by the Township Committee of the Township of Woodbridge for macadamizing about 452 lin.ft. of Coriel St. at Fords. Andrew Keyes is Township Clk.

Connellsville, Penn.—The County Court of Fayette County, Uniontown, has approved an order for paving Isabella Road from Wood Alley to Newmyer Ave., at an estimated cost of $13,224. Fayette County will pay one-half the cost of the work, while the city of Connellsville will bear the other half and keep the street in repair. J. Q. Van Swearingen is County Judge.

Norristown, Penn.—(Official)—Bids will be received until 10 a.m., July 29, by the Commissioners of Montgomery County for resurfacing a portion of the Conshohocken Pike. About 8000 tons of stone will be required. John N. Jacobs is County Controller.

Spangler, Penn.—(Official)—Bids will be received until 8 p.m. July 30 by George W. Lantzy, Borough Secy., for grading, paving and curbing Bigler Ave. from North First to North Fourth St., and from North 16th to North 17th St., and for improving North 17th St. from Bigler to Crawford Ave.

Baltimore, Md.—Bids will be received until Aug. 4, by O. E. Weller, Chn. State Roads Commission, 601 Garrett Bldg., for the following road construction: Near Cumberland to Naves Farm Road, 1.74 miles resurfacing in Allegany County; Cathedral and Liberty Sts., from near Monument to Baltimore St., .54 mile, in Baltimore City, sheet asphalt and granite block; Cambridge to Church Creek Road, 5.85 miles, macadam or concrete, Dorchester County; road through Middletown, 1.35 miles, of macadam or concrete. Frederick County; Meadows to Camp Springs, 3.03 miles of macadam. concrete or gravel, Prince George's County; St. Mary's City to Ridge, 6.74 miles gravel resurfacing, Leonardtown to Great Mills, 1.0 miles of gravel surfacing, St. Mary's County; Carroll's Corner to Marion, 5.32 miles of macadam or concrete, Somerset County; Licking Creek to Millstone, 4.1 miles macadam or concrete, Washington County; Millstone to Hancock, 3.5 miles of macadam or concrete, Washington County.

✚The Board of Awards has awarded the contract for paving Eutaw St., from Baltimore St. to Madison St., with sheet asphalt, to the UNION PAVING CO., Schenectady, N. Y., at $44,698.

Towson, Md.—(Official)—The Commissioners of Baltimore County have received the following bids for road improvement: Paper Mill Road, Allen Engineering & Construction Co., $21,323 for concrete or $19,255 for a macadam road; Harford Road, D. M. Andrews & Co., $77,035; Carozza Bros., $77,613; Thomas Gatch, $84,022; Winston & Co., $86,488. All bids were referred to the State Roads Commission. Noted July 2.

Princeton, W. Va.—(Official)—Bids will be received until 1 p.m., July 30, by the Clerk of the Mercer County Court for the following road construction: Virginia-West Virginia State Line, near Pocahontas to Coopers, about 2⅛ miles; Bramwell to Rock, about eight miles; Bramwell to Bluefield, about eight miles; Princeton to Athena, about 6½ miles; Carr Schoolhouse to the mouth of Sand Lick, about seven miles. W. I. Lee, Princeton, is Ch. Engr. Macadam Road Construction.

Graham, N. C.—(Official)—Bids will be received until July 28 by the Street Commission for grading, paving or otherwise improving the streets of the town, as far as may be done with the proceeds of a recent bond issue of $50,000. William I. Ward is Chn. of Street Comn. J. N. Ambler, Winston-Salem, N. C., is Consult. Engr.

✚Birmingham, Ala.—The Board of City Commissioners has awarded the contract for asphalt paving under improvement Ordinance No. 831-C to the SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, at $25,530.

✚The Board of City Commissioners has awarded the contract for grading and macadamizing Pike Ave. from Byrne St. to the street railway to PAUL RICHTER, cost, about $50[illegible]; the contract for paving North 25th St. from 12th to 17th Ave. was awarded to the SOUTHERN BITULITHIC CO., at $15,4[illegible]0. Noted July 9.

Hattiesburg, Miss.—(Official)—Bids will be received until noon, Aug. 4, by the Highway Commissioners of Beats 1 and 3, Forrest County, for improving 5½ miles of streets and roads. J. K. Denham is Secy. of the Comrs. F. T. Myers is Engr.

Laurel, Miss.—(Official)—Bids will be received until noon, Aug. 3, by T. C. McCallum, Chn. of the Bd. of Commissioners of District No. 2, Jones County, for the construction of [illegible]1 miles of streets and roads, gravel surface. F. T Myers is Engr.

Clarksville, Tenn.—(Official)—Bids will be received until noon, Aug. 7, by the Road Commissioners of Montgomery County for the construction of about 7¾ miles of macadam road, involving about 550,000 cu.yd. of excavation and 10,000 cu.yd. of broken stone. D. T. Foust is Engr.

Lewisburg, Tenn.—Bids will be received until July 25 by the Mayor and Board of Aldermen for the construction of about 11,000 sq.yd. of bituminous macadam, 10,000 sq.yd. plain macadam and 1200 lin.ft. storm sewer. J. A. Loyd is Mayor. R. C. Fergus is City Engr.

✚Akron, Ohio—(Official)—The Board of County Commissioners has awarded the contract for improving the Loyal Oak Road to the PORTAGE ENGINEERING CO., Akron; the contract for improving the Arlington Road was awarded to McLONAN BROS., Akron. Noted July 2.

✚Cincinnati, Ohio—(Official)—The Board of County Commissioners has awarded the contract for repairing the Harrison and New Haven Pike, Crosby Township, to E. FAGALY, Harrison, Ohio, at $4215. Noted June 25.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 27, by the Board of Park Commissioners, 2005 Gilbert Ave., for about 2200 cu.yd. of broken stone on Sect. 5 of the Bloody Run Parkway, between Woodburn and Asmann Aves. William Hodgkinson is Secy.

(Official)—Bids will be received until noon, Aug. 7, by the Board of County Commissioners for repairing the Muddy Creek Pike from the Bridgetown Pike to the Muddy Creek Road, Green Township. Albert Reinhardt is Clk, of Comrs.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 27, by the Director of Public Service for brick paving on portions of the following streets: Brewster Ave., Thill, Rice and East Pavilion Sts. Philip Fosdick is Dir. of Pub. Ser. Parke S. Johnson is Secy.

Cleveland, Ohio—Bids will be received until July 31, by the Commissioner of Purchases and Supplies, 513 City Hall, for furnishing tarvia or other road preparation for the division of Parks

✚Cleveland, Ohio—(Official)—The Village of Shaker Heights has awarded the contract for the improvement of East 128th St. to the ASPHALT BLOCK PAVEMENT CO., Toledo, at $14,000. Noted June 25.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., Aug. 1, by the Board of Commissioners of Cuyahoga County, for the improvement of Bliss Road, from Euclid to East Lake Road, Euclid Township. E. G. Krause is Clk. of the Comrs. W. A. Stinchcomb is County Surv.

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., Aug. 4, by James R. Marker, State Highway Comr., for the construction of the Cleveland-Wooster Road, Cuyahoga County, of which 8.51 miles is to be paved with waterbound macadam, and 0.15 mile with brick. The estimated cost is $52,276.

Bids will be received until 2 p.m., Aug. 4, for paving with waterbound macadam Sect. No. 2 of the Marion-Delaware Road, Marion and Pleasant Townships. Estimated cost, $5750.

✚Columbus, Ohio—The State Highway Commission opened bids on July 7 for the following road improvements:

Portsmouth-Columbus Road, Franklin County. D. E. Sullivan & Son, Columbus, $21,700; GEORGE GEIGLE & SON, Columbus, $20,348 (contract awarded).

Columbus-Marysville Road, Franklin County, D. E. SULLIVAN & SON, $56,900 (contract awarded); W. M. Graham, Columbus $57,400; J. M. Snouffer, Columbus, $57,480.

Scotland Station Road, Geauga County, J. W. BURNETT, Chagrin Falls, $4500 (contract awarded).

Bryan-Defiance Road, Williams County, Rolla M. Myers, Attica, $9300; KELLY CONSTRUCTION CO., Bryan, $9120 (contract awarded).

Athens-McArthur Road, Vinton County, KUEHNER & KING, McArthur, $3013 (contract awarded).

Columbus-Marysville Road, Union County, L. L. Allen, La Rue, $38,492; Union Construction Co., Bellefontaine, $38,417; Vogelsburg & Walz, Columbus, $38,195; J. M. Stone Construction Co., Marion, $37,698; J. M. SNOUFFER, $37,990 (contract awarded).

Youngstown-Cleveland Road, Trumbull County, Sherman Deroot, Youngstown, $38,450; Morgan Bros., Ravenna, $38,000; H. D. Green, Ravenna, $38,345; J. C. DEVINE, Alliance, $36,740 (contract awarded); W. E. Ule, Kent, $37,726, and six others.

Dayton-Greenville Road, Montgomery County, CLIFTON & HOOLIHAN, Dayton, $45,447 (contract awarded); Gephart & Klein, Dayton, $45,500.

Dayton-Troy Road, Montgomery County, Gephart & Klein, $42,000; GRAHAM & KINNEAR, Columbus, $41,500 (contract awarded).

Zanesville-Dresden Road, Muskingum County, Ira Acton, Vaughnsville, $18,100; M. E. MURPHY CO., Columbus, $18,000 (contract awarded).

Oak Harbor-Geneva Road, Ottawa County, Modern Construction Co., Fremont, $30,500; Hezlip-Seaton Co., $30,600; Barnes & Alnerdinger, Rocky Ridge, $30,949.

Newark-New Lexington Road, Perry County, LAMB & NEIL, Thornville, $14,503 (contract awarded).

McConnellsville-New Lexington Road, Perry County, LAMB & NEIL, $4890 (contract awarded).

Eaton-Richmond Road, Preble County, H. W. Curry & Co., Eaton, $36,999; FOSTER CONSTRUCTION CO., Richmond, Ind., $36,180 (contract awarded).

Columbus-Chillicothe Road, Ross County, J. F. PERRY, Chillicothe, $15,120 (contract awarded); W. H. Reynolds Sons Co., Chillicothe, $15,182; McCoy Bros. & Keller, Jackson, $15,475.

Columbus-Chillicothe Western Road, Ross County, M. E. Murphy Co., $15,400; J. F. Perry, $14,964; S. M. DOUGHERTY, Frankfort, $14,697 (contract awarded); W. H. Reynolds Sons Co., $15,064.

Portsmouth-Columbus Road, Ross County, M. E. Murphy Co., $8300; Oather M. Junk, Chillicothe, $7899; J. F. PERRY, $7670 (contract awarded); McCoy Bros. & Keller, $8325; W. H. Reynolds Sons Co., $7965.

Lima-Kenton and Marion- Kenton Roads, Hardin County, HEZLIP-SEATON CO., Piqua, $25,462 (contract awarded); MacGledhill, Dalton, $25,990; Mustard Bros., Ada, $25,874; Union Contracting Co., $26,500; Lunsford Bros. & Co., Pedro, $25,987; Scott Bros., Marion, $25,656.

Logan-Lancaster Road, Hocking County, E. L. RAUDEBAUGH, Logan, $3099 (contract awarded); Houston & Henderson, Logan, $3120.

Cleveland-Sandusky Road, Lorain County, George B. Herring & Son, Cleveland, $68,250; Edmund Burke, Franklin, $67,347; M. E. MURPHY CO., $67,300 (contract awarded); Ohio Engineering Co., Lorain, $68,000; Modern Construction Co., $68,417; Degroot & Cochran, Cleveland, $67,550.

Dayton-Covington Road, Montgomery County, Gephart & Klein, $25,700; YOUNT & JACKSON, Dayton, $25,494 (contract awarded).

Chillicothe-Portsmouth Road, Ross County, McCoy Bros. & Keller, $6950; J. F. PERRY, $6521 (contract awarded); W. H. Reynolds Sons Co., $6700; Brewer, Tomlinson & Brewer, Chillicothe, $6773.

Sandusky-Clyde Road, Sandusky County, MODERN CONSTRUCTION CO., $46,497 (awarded contract); Lee Bros., Clyde, $48,500; Tinerger & Bennett, Conneaut, $49,000.

Akron-Kent Road, Summit County, Degroot & Cochran, Cleveland, $34,475; E. M. Shaffrey & Son, Akron, $34,377; DOOLITTLE & GARFORD, $33,974 (awarded contract); J. C. Devine Co., Alliance, $34,400.

Niles-Ashtabula Road, Trumbull County, M. E. MURPHY CO., $23,995 (awarded contract); James M. Caren & Sons, Youngstown, $23,996; B. F. Hewitt, Jefferson, $24,060.

+Easton, Ohio—The contract for paving Main and Cherry Sts. has been awarded to the ANDREWS ASPHALT CO., at about $50,000.

+Elmore, Ohio—The contract for paving Cheapside St. has been awarded to A. WITTE at $7000.

+Hicksville, Ohio—Contracts have been awarded to CLEMMER & JOHNSON, Defiance, Ohio, for brick paving, and to the JOHNSON CONSTRUCTION CO., Chicago, for asphaltic concrete block pavement on five streets of the village. The total cost of the work is estimated at $55,000.

Mount Gilead, Ohio—(Official)—Bids will be received until 11 a.m., Aug. 6, by the Board of Commissioners of Morrow County for the repair of the Westfield Road Improvement No. 2, near Bartlett's Bridge, Westfield Township. C. O. Higgins is County Audr.

Ottawa, Ohio—(Official)—Bids will be received until Aug. 11 by the Director of Public Service for the construction of 5851 sq.yd. of street paving. The Smith & Boulay Co., 322 The Nasby, Toledo, is Engr. in Charge.

+Pioneer, Ohio—(Official)—The Director of Public Service has awarded the contract for brick paving, with concrete curb and gutter, to G. H. HEFFNER & SONS, Celina, Ohio, at $33,813. Other bidders were: The Brooks Construction Co., $34,812; Freshwater & Sons, Cleveland, $35,019; Johnson & Pitry, Napoleon, Ohio, $38,322; Marsman & Green, Grand Rapids, Ohio, $35,536. Noted July 2.

+Toledo, Ohio—The Board of County Commissioners has awarded the contract for paving a mile of Clark Ave. between the river road and Detroit Ave. with bituminous bound macadam to J. B. RAYMER, at $12,000. Noted July 2.

+Versailles, Ohio—The contract for paving Main St. has been awarded to JOHN HENNESSEY & CO., at $35,000. The pavement will be of medal block and Berea stone. Noted June 18.

Youngstown, Ohio—(Official)—Bids will be received until noon, July 30, by the Director of Public Service, for grading the following: Pricetown Road, Milton Township, between the Milton Dam and the Jackson and Milton Road; Stewart Ave., from McGuffey to Bond St.; Palmyra Road, Milton Township, from the Jackson and Milton Road to the Jersey Road. H. C. Fox is Clk.

+Brownstown, Ind. — (Official)—The Commissioners of Jackson County have awarded a contract to GEORGE BEBOUT, Freetown, Ind., for the construction of a county line road, and a contract to SAMUEL B. SMALLWOOD, Ewing, Ind., for the construction of a gravel road in Owen Township. Noted June 18.

Corydon, Ind.—W. H. Rothrock, Seattle, Wash., one of the owners of Wyandotte Cave, has offered to give $10,000 for the construction of a macadam road from Corydon to Leavenworth, by way of the cave, providing that the residents along the proposed line will raise a similar amount.

+Fort Wayne, Ind.—The Commissioners of Allen County have awarded the contract for the construction of about five miles of the Bluffton Road to J. T. O'CONNOR & SONS, at $49,090; the contract for the construction of approximately three miles of the Taylor St. Road was awarded to the ERIE STONE CO., at $14,000. Noted June 11.

Gary, Ind.—Bids will be received until July 27 by the Board of Public Works for the following street work: Massachusetts Ave., 3721 sq.yd. macadam, 2491 ft. curb, estimated cost, $5092; 25th Ave., 7011 sq.yd. macadam, 4883 sq.yd. sidewalks, 10,301 ft. curb, 6257 cu.yd. grading, estimated cost, $21,162; Sixth Ave., 9245 sq.yd. asphalt, 542 sq.yd. concrete, 9245 sq.yd. old surface dressed, estimated cost $15,843. W. J. Fulton is City Engr.

Bids received on July 13 for paving Sixth Ave. were as follows: M. D. Heiny, Gary, $15,346; Sugwald Moe, Gary, $15,753; Rankert & Eggleston, Mishawaka, Ind., $18,851. The contract is readvertised because of error in the first advertisement. Bids for the improvement of 11th Ave. were received from: M. D. Heiny, $7245; Sugwald Moe, $7113; Gary Construction Co., Gary, $7071. Noted July 1.

+Peru, Ind.—The City Council has awarded the contract for asphalt paving on West Main and Third Sts. to the WESTERN CONSTRUCTION CO., Lafayette, Ind., at approximately $125,000.

+South Bend, Ind.—(Official)—The Commissioners of St. Joseph County have awarded the contract for the construction of a gravel road in Union Township to C. H. DEFREES, oSuth Bend, at $17,200. Noted July 2.

+Vincennes, Ind.—The Commissioners of Knox County have awarded the contract for the construction of one mile of concrete road near Vincennes to MANNING & O'DONNELL, Vincennes, at $14,271. There were six other bidders on the work. This is the first concrete road to be built in Knox County.

Plymouth, Mich.—Bids will be received until 7 p.m., July 27, by Roderick C. Cassidy, Village Clk., for the construction of concrete pavement on Liberty St. from Oak to Mill St., and Penniman Ave. from Main to Harvey St.

★Sturgis, Mich.—(Official)—Bids will be received until 7 p.m., Aug. 3, by the City Council, for the construction of 22,075 sq.yd. of brick or asphalt block pavement and 11,300 lin.ft. combined curb and gutter. Gerald E. Swihart is City Clk. See advertisement under Contracts to Be Let.

+Allison, Ill.—(Official)—Contracts have been awarded for the construction of gravel roads to P. W.. LENAHAN, Vincennes, Ind., at $8395, and ISAAC DAINES, Vincennes, at $3090. Noted July 2.

Bloomington, Ill.—The Board of Local Improvements has received the following bids far paving Washington St. :Pronger & Fletcher, Blue Island, $27,787; T. W. Keys, La Salle, Ill., $27,786; the Foley Construction Co., Chicago, and I. D. Lain, Bloomington, submitted their bids on a square yard basis, totals not given. The bids for paving Grove St. were: Pronger & Fletcher, $11,302; T. W. Keys, $11,517; I. D. Lain, $1.90 per sq.yd.; Foley Construction Co., $1.87 per sq.yd.

+Granite City, Ill.—The Board of Local Improvements has awarded the contract for the construction of sidewalks in Improvement District No 23, to the GRANITE CITY LIME & CEMENT CO., at $6038.

+Kankakee, Ill.—The Board of Local Improvements has awarded the contract for paving North Schuyler Ave. with brick from Court St. to the tracks of the Chicago, Indiana & Southern R.R. to PRONGER & FLETCHER, Blue Island, Ill., at $27,217. The contract for paving three blocks of Schuyler Ave. north of the railroad tracks, was awarded to HARRY McMULLEN, Kankakee, at $13,262.

+Monmouth, Ill.—The Board of Local Improvements has awarded the contract for paving South Sixth St. to the BURLINGTON CONSTRUCTION CO., at $11,898. Other bidders were: Cameron Joyce & Co., Keokuk, Iowa, at $12,000 and J. B. McAuley Galesburg, Ill., at $11,967.

+Normal, Ill.—The Board of Local Improvements has awarded the contract for the construction of brick block pavement on Clinton Place and Central Ave., in the Cedar Crest Addition, to ROY L. WILLIAMS at $6790.

+Princeton, Ill.—The Board of Local Improvements has awarded the contract for brick pavement on South Main St. to PRONGER & FLETCHER. Blue Island, at $13,444 Other bids were: William Kissick Co., $14,045; the Gund Graham Co., $14,270; the Illinois Gravel Co., $12,572.

+Quincy, Ill.—The Board of Local Improvements has awarded the contract for paving Jersey St., from 12th to 14th St., to ROEDER & GREENMAN, at $6450. Other bidders were: Peter Simons, $6597, and Joseph Eiff & Son, $6482.

★+Rockford, Ill.—(Official)—The Board of Local Improvements has awarded the contract for constructing about 14,277 sq.yd. of brick pavement and 7300 lin.ft. concrete curb and gutter to A. E. RUTLEDGE, Rockford, at $31,200. Noted July 2.

+Rock Island, Ill.—The Board of Local improvements has awarded the contract for brick paving on Second Ave., from Seventh to Ninth St., and on Seventh St., from Second to Fourth Ave., to the TRI-CITY CONSTRUCTION CO., at $2.19 per sq.yd. for paving and 43c. per ft. for curbing. The Independent Construction Co. bid $2.20 and 43½c.

Springfield, Ill.—(Official)—Bids will be received until 11 a.m., July 28, by the State Highway Commission for the following road improvements, all cement to be furnished by the State: Coles County, Route 8 and 15, Sect. A, 6000 lin.ft. brick construction, estimated cost $14,122; Scott County, Route 4, Sect. A, 1890 lin.ft. concrete, cost $3000; Stephenson County, Route 9, Sect. A, 3000 lin.ft. brick, cost $13,035; Logan County, Route 7, Sect. B, cost $5689; Logan County, Route 8, Sect. C, 3600 ft. concrete, cost $5172; Logan County, Route 13, Sect. D, cost $5812; Tazewell County, Route 9a, Sect. A, cost $7765; Tazewell County, Route 10, Sect. B, cost $7398; Tazewell County, Route 11, Sect. C, cost $2852. P. C. McArdle is Asst. Highway Engr.

(Official)—Bids will be received until 11 a.m., July 28, for the following State aid work, all cement to be furnished by the State: Lee County, Route 5, Sect. A, 900 lin.ft. concrete, estimated cost, $17,045; Menard County, Route 7, Sect. A, 2400 lin.ft. concrete, cost, $4862; Cook County, Route 19, Sect. D, 16,235 lin.ft. concrete, cost, $35,107.

Waukegan, Ill.—(Official)—The following bids were received by the Board of Local Improvements for the construction of 10,830 sq.yd. of asphaltic concrete pavement and 6000 lin.ft. combined curb and gutter: Western Improvement Co., Racine, Wis., $22,584 (low bidder); H. P. Streicher, Chicago,

$24,076; H. G. Goelitz, Oak Park, Ill., $24,149; M. McCugo, Waukegan, $24,636; White Construction Co., Milwaukee, Wis., $25,573; John A. McGary Co., Chicago, $26,548. Noted July 9.

Green Bay, Wis.—Bids will be received until Aug. 12, by W. L. Kerr, City Clk., for grading and paving East Mason St. Asphalt on a concrete foundation will be used. A. Brauns is City Engr.

LaCrosse, Wis.—Bids will be received until Aug. 11, by the Board of Public Works, for the construction of about 6000 sq.yd. asphaltic macadam pavement with concrete curb and gutter on St. Andrews St. W. J. Fries is City Comptroller.

+Madison, Wis.—(Official)—The Board of Public Works has awarded the following contracts for street improvements from bids received July 16: For improving Atwood Ave., to the WESTERN IMPROVEMENT CO., Racine, Wis., at $26,944; for Gilman and Henry Sts., to the H. P. STREICHER CO., Toledo, Ohio, at $13,800; for macadam paving, contracts were awarded to: JOHN T. BLAKE, at $5000, for Jefferson St.; JOHN R. CULLINANE, at $7942, for Van Hise Ave., and to JOHN F. ICKEY, at $14,495, for concrete work on Atwood Ave. Noted July 9.

+Sheboygan, Wis.—The contract for the construction of a concrete road between Sheboygan and Sheboygan Falls has been awarded to J. RASMUSSEN & SONS, Oshkosh, Wis., at $30,216. The cement will be furnished by the contractor, and will cost about $15,000 more. Noted July 16.

+Watertown, Wis.—(Official)—The Board of Public Works has awarded the contract for improving North Second St. to GEORGE L. BARTLETT, Watertown, Wis., at $12,747. Other bidders were: Lehman Bros., $12,929; George Welch, $14,216. Noted July 2.

+Des Moines, Iowa—The City Council has awarded the contract for paving 28th St., from Grand Ave. to Kingman Blvd., to the DES MOINES ASPHALT CO., at $1.92 per sq.yd.; the contrct for paving Dean Ave. from 16th to 18th St. was awarded to JAMES HORRABIN, at $2.09 per sq.yd.

Marshalltown, Iowa—(Official)—Bids will be received until 9 a.m., July 27, by J. J. Wilson, City Clk., for improving parts of West Church, South 12th and North Second Sts. About 8400 sq.yd. of concrete paving and 7000 lin.ft. of curbing will be required.

+Waterloo, Iowa—The City Council has awarded the contract for paving Mullan Ave. and the Mullan Ave. Bridge with asphalt to the BRYANT ASPHALT PAVING CO. at $2.26 per sq. yd.

Alexandria, Minn.—(Official)—The Commissioners of Douglas County have rejected all bids received July 17 for the construction of State Road No. 1. E. J. Brandt is County Audr. Noted July 2.

Hibbing, Minn.—Bids will be received until July 28 by the City Council for about 8000 sq.yd. paving on Fifth Ave. and McKinley St. Bids will be accepted for creosoted block, bitulithic sheet asphalt or Donnellite pavement.

+Ivanhoe, Minn.—(Official)—The Commissioners of Lincoln County have awarded the contracts for grading and graveling State Rural Highway No. 54 to: NELS UTOFT, Tyler, Minn.; HENRY ENKE, Lake Benton, Minn., and CARL INGVALDSON, Ivanhoe, Minn. Noted July 2.

+Red Lake Falls, Minn.—(Official)—The Commissioners of Red Lake County have awarded the contract for the construction of 10 miles of road to LOUIS LIEFF and W. P. SEE. Noted June 25.

Worthington, Minn. — (Official) — The Commissioners of Nobles County have awarded the contract for various road improvements in the county to JOSEPH SAMPSON, Sioux Falls, S. D. Noted Junt 25.

Abilene, Kan.—Paving bonds for $60,000 have been sold, and bids will soon be asked for the work.

Arma, Kan.—(Official)—Bids will be asked soon for various street improvements, plans for which have been prepared by Albert C. Moore, Consult. Engr., Bartlett Bldg., Joplin, Mo.

Douglass, Kan.—(Official)—Plans are being prepared by Albert C. Moore, Bartlett Bldg., Joplin, Mo., for various street improvements, including curbing and crossings.

+Horton, Kan.—(Official)—The City Council has awarded the contract for nine blocks of asphaltic concrete paving to the KAW PAVING CO., Topeka, Kan., at $30,254. Other bidders were: E. W. Geiger Construction Co., $29,574; James Stanton, $29,685; E. D. Tyner, $30,450; J. R. Ramsey, $30,082; Watts & Ammerman, $29,413. Noted June 18 and 25.

+Sioux Falls, S. D.—(Official)—The contract for paving 21st St. from Philips to Seventh St. has been awarded to the C. H. ATKINSON PAVING CO., Watertown, S. D., at $22,340. Asphaltic concrete will be used. Other bidders were: Fielding & Shepley, St. Paul, Minn., $22,527; Ford Paving Co., Cedar Rapids, Iowa, $22,490; Warren Bros., Boston, Mass., $22,500 for bitulithic pavement. Noted July 9.

Butte, Mont.—It is reported that the City Council has decided to spend about $160,000 for street paving and curbing in the southern part of the city.

Jefferson City Mo.—John P. Gordon, State Audr., has apportioned $203,000 to Missouri counties for the construction of roads.

+Kansas City, Mo.—The County Court has awarded a contract for grading the Owens School House Road to DAVIDSON BROS., at 12½c. per cu.yd. The contract will aggregate $9575.

St. Louis, Mo.—Bids will be received until July 31 by the Board of Public Improvements for the improvement of a number of alleys at a total estimated cost of $57,708. E. R. Kinsey is Pres. and W. T. Findly is Secy. of the Bd.

+Lonoke, Ark.—(Official)—The Board of Commissioners of Lonoke County has awarded the contract for the construction of 11 miles of macadam highways in Road Dist. No. 7 to the T. H. BUNCH CO., Little Rock, Ark., at $39,505. Other bidders were: W. P. Ritchie, Shreveport, La., $50,570; Woodsmall Bros., Little Rock, $48,267; George E. Drape & Co., Little Rock, $52,239; McCarthey & Peay, Little Rock, $49,602; W. C. Jucksch, Little Rock, $41,926. **Noted June 18.**

Trinity, Tex.—(Official)—Bids will be received until 5 p.m., July 27, by George M. Waller, Chn. of the Bd., for the construction of about 33 miles of sand clay roads in Road District No. 2, Trinity County. The work includes clearing, grubbing, grading and culverts.

Salt Lake City, Utah—The City Engineer has recommended to the City Commission that the contract for paving Eighth West St. from Second South to Tenth South St., and for Fourth South St. from Second West to Eighth West St. with Utah stone filled rock asphalt, be awarded to P. J. Moran, at approximately $125,000.

Colville, Wash.—Bids will be received until July 27 by Charles A. Burr, Audr. of Stevens County, for clearing, grubbing, grading, draining, bridging and surfacing with crushed stone, about 16,700 lin.ft. of the Colville-Myers Falls Permanent Highway.

+Seattle, Wash.—The contract for paving Second Ave., from Pike St. to Yesler Way, has been awarded to T. J. RYAN, Seattle, at $74,000.

+Seattle, Wash.—The contract for improving 27 miles of the Scenic Highway has been awarded to the BRUCE-NETTLETON-ESCHBACH CO., Seattle, at $141,170. Other bids were: Hans Pederson, $162,400, and the Washington Construction Co., $174,652. Noted June 25.

Jacksonville, Ore.—It is reported that the State Highway Commission, Salem, is receiving bids for surfacing five miles of road between Jacksonville and Ashland, at an estimated cost of $75,000.

+St. Helen, Ore.—The County Court of Columbia County has awarded the contract for the construction of the Mist-Clatskanie and the Upper and Lower Nehalan Roads to the ELLIOTT CONSTRUCTION CO., Portland, Ore., at $39,948.

+Oroville, Calif.—The City Trustees have awarded the contract for paving the downtown district to the CLARK-HENERY CO., Sacramento, Calif., at $36,352.50.

Sacramerto, Calif.—Bids will be received until Aug. 10 by the State Highway Commission, Forum Bldg., for road construction as follows: Mendocino County, about 11.4 miles to be graded, and a portion to be paved with concrete.

Humboldt County, from Miranda to Dyerville, about 13.8 miles to be graded.

Santa Clara County, from Santa Clara to San José, about 1.9 miles of concrete with asphaltic wearing surface; from the northerly county boundary to San José, about 6.8 miles of concrete.

Contra Costa County, from San Pablo Creek to Pinole, about 3.6 miles to be graded.

Humboldt County, from Shively to Jordan Creek, about five miles of concrete.

Santa Barbara County, from El Capitan Creek to Alcatraz, about 9.3 miles to be graded.

Orange County, from Galligan to Irvine, about 9.4 miles of concrete.

Imperial County, from Meyers Creek to 'Coyote Wells, about six miles of concrete.

Sacramento, Calif.—The State Highway Commission has awarded contracts for highway work as follows: Construction of 11.7 miles from Woodland to southerly boundary of Yolo County, to M. BLUMENKRANZ, Stockton, at $53,988, about 10.3 miles in Santa Cruz County, from Glenwood to Santa Cruz, to the OCCIDENTAL CONSTRUCTION CO., Los Angeles, at $54,761; about 13.4 miles in San Luis Obispo County, from Arroyo Grande to San Luis Obispo, to ROGERS BROS., Los Angeles, at $86,986; about 11.1 miles in Ventura County, from Newbury Park to Springville, to LEIGH G. GARNSEY, Los Angeles, at $96,121. Noted June 25.

San Francisco, Calif.—See item under Miscellaneous: Grading—San Francisco.

San Francisco, Calif.—See item under '"Sewers."

+San Mateo, Calif.—The Board of Supervisors of San Mateo County has awarded a contract for county highway work to the CLARK-HENERY CO., Sacramento, at $69,330.

+San Rafael, Calif.—The Board of City Trustees has awarded the contract for paving Petaluma Ave., Fourth and B Sts. to the CLARK-HENRY CO., Sacramento, at $104.000.

Tulare, Calif.—The opening of bids for paving work has been postponed until Aug. 3 by the City Trustees. E. Oakford is City Clk. The cost of the work is about $60,000. Noted July 2.

Winnipeg, Man.—See item under "Sewers."

+Swift Current, Sask.—(Official)—The City Council has awarded the contract for the construction of concrete sidewalks to the GILLSTROM CONTRACTING CO., Swift Current. Other bidders were: Jesse House, Weyburn, Sask., $11,440; Crown Paving & Construction Co., Calgary, Alta., $11,813; C. C. Potter & Co., Medicine Hat., Alta, $11,953; Rawlins Lowndes, Mocse Jaw, Sask., $13,476; G. V. Clark and E. B. Winn, Swift Current, $12,349. Noted July 9.

+Nanaimo, B. C.—The City Council has awarded the contract for paving on 13 streets to H. J. KERR, Vancouver, B. C., at $250,000. Asphaltic concrete will be used.

INDUSTRIAL WORKS

Old Town, Maine—The Old Town Canoe Club will build a five-story, 40x250-ft. addition to its plant on Middle St.

+Derby, Vt.—The Union Twist Drill Co., Athol, Mass., has awarded a contract to HENRY T. BUHMAN for a $100,000 addition to its local plant. Noted June 25.

+Boston, Mass.—The Thompson-Norris Co. has awarded a contract to the NATIONAL FIREPROOFING CO., 201 Devonshire St., for a seven-story, 80x120-ft. building.

+Clinton, Mass.—The Clinton Wire Cloths Co. has awarded a contract to the FISKE-CARTER CONSTRUCTION CO., Providence, R. I., for an 86x100-ft., brick addition to its plant, at $30,000.Noted July 9.

Springfield, Mass.—The Excelsior Needle Co., Boylston St., will build a $50,000 addition to its plant.

Springfield, Mass.—The Chapin Realty Trust Co. has filed plans for a four-story, 71x168-ft. garage. H. T. Sprague is the Arch.

Pawtucket, R. I.—The Philips Insulated Wire Co. plans to build a three-story, 200x200-ft. addition to its plant.

+Providence, R. I.—The State Board of Control and Supply has awarded a contract to the P. E. HARDING CO., for a laundry, at $18,918, to be built at the State Hospital for the Insane. The contract for a heating plant is still unawarded.

+Meriden, Conn.—The Bradley & Hubbard Mfg. Co., Hanover St., has awarded a contract to the H. WALES-LINES CO., 134 State St., for a four-story, 40x100-ft. warehouse.

Norwich, Conn.—The American Strawboard Co. will build a one-story, 100x200-ft. brick warehouse.

Belmont, N. Y.—The Pennsylvania Lock & Hardware Co., Columbia, Penn., will build a brick and concrete 40x150-ft. factory. A. Haldeman is Pres.

Buffalo, N. Y.—The International Ry. Co. will build a brick and steel addition to its car storage house at Military Road and Hertel Ave., to cost $25,000.

+Buffalo, N. Y.—The Niagara Coke Corporation has awarded a contract to the OTTO COKING CO., 6 Church St., New York, N. Y., for a $1,000,000 plant.

The Wickwire Steel Co. will erect a steel mill which will cost from $2,000,000 to $5,000,000.

Canandaigua, N. Y.—The Sisk Mfg. Co. is receiving bids for a 100x200-ft. addition to its plant. Leon Stern, Rochester, N. Y. ,is the Arch.

Dunkirk, N. Y.—The Continental Heating Co., recently organized, is having plans prepared for a $35,000 plant.

New York, N. Y.—(Borough of Manhattan)—Austin, Nichols & Co., 61 Hudson St., will build a 200x250-ft. warehouse and wharf at 129th St. and Second Ave.

(Borough of Manhattan)—James A. Murphy will build a four-story garage at 161 West 132d St. The cost will be $20,000.

(Borough of Brooklyn)—The Advance Machine Works, 254 Van Bruit St., plans to build an eight-story, reinforced concrete factory, costing $100,000.

New York, N. Y.—(Borough of Brooklyn)—The Ford Motor Co., Detroit, Mich., has purchased a site at Bedford Ave. and Sterling Place. It is reported that a six-story building will be erected.

+New York, N. Y.—(Borough of Brooklyn)—The Metropolitan Iron Foundry has awarded a contract to JOSEPH KIST, 938 Metropolitan Ave., for a one and two-story, 50x200-ft. brick foundry, at $25,000.

Edgewater, N. J.—The Aluminum Co. of America, Mellon National Bank Bldg., Pittsburgh, Penn., has puchased 118 city lots at Edgewater. It is reported that a $2,000,000 plant will be built.

+Trenton, N. J.—The Crescent Pottery Co. has awarded a contract to BURTON & BURTON, American Mechanics Bldg., for a 3½-story steel and brick warehouse, to cost $30,000.

Ebensburg, Penn.—William Mohler will build a 64x154-ft. garage at High and Julian Sts.

Philadelphia, Penn.—Borzner & Wood, 721 Walnut St., are preparing plans for a six-story, 20x60-ft. reinforced concrete factory, to be built at 709 Filbert St

Philadelphia, Penn.—C. Vogt will build a one-story, 26x103-ft. machine shop at Croskey and Cambria Sts. The cost will be about $12,000.

Philadelphia, Penn.—Chester A. Asher, 5605 Germantown Ave., will build a three-story, 35x54-ft. bakery.

+Pittsburgh, Penn.—(Official—The East Liberty Wholesale Grocery Co. has awarded a contract to TOUPET, BEIL & CONLEY, INC., 1428 Oliver Bldg., for a reinforced concrete warehouse, at $35,000.

Baltimore, Md.—The Reliable Furniture Co., has purchased a site on Wilkins Ave., on which it will build a $100,000 factory.

Baltimore, Md.—The United States Woolen Mills Co. will build a seven-story, 70x158-ft. factory, to cost $200,000.

Washington, D. C.—Averill & Adunis are having plans prepadre for a ten-story, 30x105-ft. warehouse, to be built at 1331 G. St. The cost will be about $60,000.

Atlanta, Ga.—The Southern Wire & Iron Co. has purchased a site and plans the construction of a three-story factory.

Tampa, Fla.—The Export Phosphate Co., Mulberry, Fla., plans to build a plant here, to cost about $500,000.

Birmingham, Ala.—Solon Jacobs will build a 75x150-ft. garage, to cost $10,000. William C. Weston is the Arch.

Gadsden, Ala.—The Dixie Pipe Co., newly organized by Robert Campbell, has purchased an eight-acre site on which it will build a 120x254-ft. building.

New Orleans, La.—The Universal Film Co. will build a $500,000 plant. Herman Fichtenberg is Pres.

Knoxville, Tenn.—The Appalachian Mills will build two new additions to its plant, to cost $50,000. Noted May 28.

Memphis, Tenn.—The Yazoo & Mississippi Valley R.R., Memphis, Tenn., will erect car building and locomotive repair shops.

Greenville, Ky.—The S. E. Rice Tobcco Co. will build a three-story, 60x100-ft. factory, of concrete and iron sheeting.

Louisville, Ky.—The Aston Fisher Tobacco Co. will build a five-story, reinforced concrete warehouse, to cost $50,000.

+Cleveland, Ohio—The Reliance Gauge Column Co., 5902 Carnegie Ave., has awarded a contract to the C. N. GRIFFIN CO., 1812 East 12th St., for a four-story, 50x125-ft. factory. The cost will be $47,000.

Cleveland, Ohio—The Herold Bros. Co. plans to build a four-story, 50x125-ft. building at 62 Public Square. A. C. Wolf, 403 Swetland Bldg., is the Arch.

Cleveland, Ohio—The Freed-Keller-Kohn Co., 1233 West 9th St., will build a three-story, 94x160-ft. factory.

Lima, Ohio—The Buckeye Machine Co., East Wayne St., plans to build a 60x150-ft. shop at Atlantic Ave. and the Erie R.R.

Martin's Ferry, Ohio—William Lippincott plans to build a plant for the manufacture of enamelware novelties, large enough to employ 200 men.

+New Philadelphia, Ohio — The Belmont Stamping & Enameling Co. has awarded a contract to the UNION LUMBER CO. for a 192x211-ft. brick and steel warehouse.

Salem, Ohio—The P. A. Field Shoe Co. has had plans prepared for a four-story addition to its plant.

Detroit, Mich.—The Banner Cigar Co. plans to build a four-story, brick and steel factory at Mitchell and Warren Sts.

Detroit, Mich.—The Banner Laundering Co., Brooklyn and Plum Sts., has completed plans for a three-story, brick addition to its plant.

Detroit, Mich.—The Horlick Malted Milk Co., Racine, Wis., has purchased twenty acres in Detroit, on which it will build a factory to employ about 400 hands.

Detroit, Mich.—The Detroit Legal News Co., West Congress and First Sts., will build a three-story, brick and steel printing plant.

Detroit, Mich.—The Wagner Baking Co. will build a four-story, brick and steel bakery, at Grand River and Brooklyn Aves.

Flint, Mich.—The Walker-Weiss Axle Co. plans to build a two-story 50x300-ft. shop, to cost $30,000.

Saginaw, Mich.—A. Schirmer plans to build a two-story, 80x120-ft. brick garage.

Chicago, Ill.—The Vienna Sausage Mfg. Co., 722 West 12th Place, has filed plans for a three-story addition to its plant, to cost $11,000.

Green Bay, Wis.—The John Hoeberg Co. will build a three-story, 40x180-ft. addition to its paper manufacturing plant. Frank A. Haeberg is Pres.

+Neenah, Wis.—The Kimberly-Clark Co. has awarded a contract to the IMMEL CONSTRUCTION CO., Fond du Lac, Wis., for a $25,000 addition to its plant.

Oconomowoc, Wis. — The Pacific Coast Condensed Milk Co. will build a tin can factory at a cost of about $250,000.

Des Moines, Iowa—The Green Foundry & Furnace Works plans to build a $200,000 foundry. F. O. Green is Pres.

Dubuque, Iowa.—The Becker-Hazleton Co., 545 Main St., has purchased a site on Iowa st., on which it will build a seven-story and basement, 40x150-ft. building.

Minneapolis, Minn.—The Northeastern Knitting Co., 267 Lyndale Ave., will erect an eight-story brick factory, 103x298 ft., at North Minneapolis. John Wunder is the Arch. The estimated cost is $100,000.

St. Paul, Minn.—Local press reports state that the Northern Pacific R.R. will build a roundhouse and locomotive repair shop, costing $500,000.

Little Rock, Ark.—The Little Rock Compress Co. is the name of the enterprise noted May 28, which plans to build an $80,000 cotton compress.

+Texas City, Tex.—The Texas City Transportation Co. has awarded a contract to the HOUSTON STRUCTURAL STEEL CO. for a 163x880-ft. steel and sheet iron warehouse, at $110,000.

Houston, Tex.—The Houston Lighting & Power Co., will build a $11,000 garage and storehouse.

Ridgefield, Wash.—F. N. Griffith will build a 40x85-ft. and 25x40-ft starch factory, to cost $10,000.

Spokane, Wash.—Sherman, Clay &Co., Kearny and Sutter Sts., San Francisco, Calif., have commissioned Albert Held, Arch., to prepare plans for a piano factory to be erected here. The cost is estimated at $50,000. Leander S. Sherman is Pres.

Spokane, Wash.—Michem Bros. have purchased a site at Broadway and Nelson St., on which they will build a $25,000 packing plant.

St. Johns, Ore.—The Western Cooperage Co. will spend about $50,000 in building a new plant.

Southport, Ore.—The North Star Iron Works has purchased a site on which it will build a large factory and iron foundry.

Bakersfield, Calif.—T. J. Cornish, owner, of the Cornish Baking Co., plans to build a bakery, estimated to cost $15,000.

Oakland, Calif.—The Nevada Mineral Paint Co., 835 O'Farrell St., plans to construct a one-story factory and warehouse at Oakland, to cost about $10,000.

Los Angeles, Calif.—The Collins Commercial Co., 211 Pacific Electric Bldg., will erect a commercial garage and machine shop on West Third St., to be 100x110 ft. and estimated to cost $20,000. Dennis & Hewitt, 619 Fay Bldg., Los Angeles, are the Archs.

Riverside, Calif.—W. Horace Austin, Arch., Long Beach, Calif., is preparing plans for a commercial garage and machine shop for William L. Peters, Riverside, Calif. The building will be 50x250 ft. and is estimated to cost $10,500.

+Brantford, Ont.—The Niagara Silk Co. has awarded a contract to BENNETT & BOWDEN for a factory, at $35,000.

Sarnia, Ont.—The Mueller Manufacturing Co. plans to build a brick factory to cost about $25,000.

Toronto, Dnt.—The National Iron Works, Ltd., is having plans prepared for a new pipe foundry, to cost about $50,000.

Windsor, Ont.—J. T. Wing & Co., 61 Sandwich St., is receiving bids for a four-story, 100x135--ft. brick and steel factory. The cost will be $36,000. J. C. Pennington, La Belle Bldg., is the Arch.

Moose Jaw, Sask.—The Moose Jaw Abbatoir Co. has secured a site and will build a 70x200-ft. abbatoir, to cost about $60,000.

Fort George, B. C.—The Peace River Brewing & Malting Co. plans to build a $75,000 brewery. Wilson & Wilson, 532 Granville St., Vancouver, B. C., are the Archs.

FEDERAL GOVERNMENT WORK

+Oil Engine—Boston, Mass.—The contract for furnishing one oil engine for propelling purposes in light vessel No. 54, has been awarded to AUGUST MEITZ, 128 Mott St., New York, at $8800. Noted July 2.

Building, Etc.—Chatham, Mass.—Bids were received for constructing a life saving staion house, barn and accessories at Chatham, Mass., as follows: Elnathan Kelly, East Dennis, Mass., $90.25; McDonald & Kivell, 155 Milk St., Boston, Mass., $18,182; Frank A. Days & Sons, 353 Commercial St., Provincetown, Mass., $14,450; George W. Wines, East Quoque, N. Y., $13,920; W. H. Fissell & Co., 1133 Broadway, New York, $14,000; W. H. Glover, Rockland, Maine, $18,400.

★+Dredging—Providence, R. I.—The contract for dredging in Providence River and Harbor, R. I., has been awarded to the PACKARD DREDGING CO., Providence, R. I., at $155,957. Noted July 9.

★Breakwater Extension—Cape Vincent, N. Y.—Bids will be received by Col. J. G. Warren, Corps Engrs., U. S. A., Federal Bldg., Buffalo, until 11 a.m., Aug. 14, for constructing a timber crib concrete breakwater extension at Cape Vincent Harbor.

★Change in Bulkhead Lines—New York, N. Y.—A public hearing will be given by New York Harbor Line Board, Army Bldg., at 10 a.m., July 30, to consider change in the bulkhead lines for English Kills, above Metropolitan Ave. Bridge, Bor-Boroughs of Brooklyn and Queens.

Derrick—Tompkinsville, N. Y.—Bids will be received until July 30, by the Light House Inspector, Third District, Tompkinsville, N. Y., for furnishing a one-ton hand-power derrick.

Induction Motors—Tompkinsville, N. Y.—Bids will be received until July 27, by the Light House Inspector, Third District, for furnishing two single-phase 25-hp. alternating-current induction motors, 110 to 220 volts, 1750 r.p.m., respectively, 60 cycle and 25 cycle.

+Jetty Repairs—Wilmington, Del.—The contract for placing stone for repairs to jetties at Cold Spring Inlet, N. J., has been awarded to the CONGER, DUNCAN CONSTRUCTION Co., New York, N. Y., at $14,600. Noted July 9.

Alterations, Etc.—Washington, D. C.—Bids were received, July 13, for alterations, repairs, etc., in the Auditor's Bldg., Washington, D. C., as follows: Caylor & Snyder, $16,490; W. F. Basin, $9622; George E. Wyne, $16,870; J. L. Marshall, $11,620; Skinker & Garrett, $8997; William E. Mooney, $11,685. All bidders of Washington, D. C.

★Memorial—Washington, D. C.—Bids will be received until 11 a.m., Aug. 20, by Wm. Hartz, Executive Office, 1729 New York Ave., Washington, D. C., for the erection of the Memorial to Women of the Civil War, at Washington, D. C.

Post Office—Covington, Va.—Bids were received as follows, July 14, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Covington. (a) limestone; (b) sandstone: J. S. Rogers Co., Moorestown, N. J., (a) $40,200, (b) $40,260; Westchester Engineering Co., White Plains, N. Y., (a) $39,890, (b) $41,900; Olin Gerlack, Frostburg, Md., (a) $38,900 (b) $39,800; Christ Kanzler & Son, Evansville, Ind., (a) $44,833, (b) $45,000.

★Sale of Engine—Jacksonville, Fla.—Bids will be received until noon, Aug. 17, by Maj. W. B. Ladue, Corps Engrs., U. S. A., Jacksonville, Fla., for purchasing triple expansion engine, 21-in., 32-in., 54-in by 26-in. centrifugal pump ,and other machinery removed from dredge "Barnard.'

Post Office—Tupelo, Miss.—Bids will be received until 3 p.m., Aug. 26, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of a one-story mezzanine and basement, stone and brick faced building of 4000 sq.ft. ground area, at Tupelo, Miss.

Buildings and Wharf—New Orleans, La.—Bids were received as follows, July 18, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for repairing certain buildings at the Naval Station, New Orelans, La., (1) net price for work complete, (2) amount to be deducted if all interior painting, etc., be omitted in five of the buildings, (3) amount to be deducted if all exterior painting in the same buildings be omitted, (4) amount to be deducted if roof work in one of the buildings be omitted; also for repairs to wharf for floating drydock at the same station: Lewis M. Dalfarn, (1) $31,847, (2) $1430, (3) $4443, (4) $6236; wharf, $13,437; alternative bid on repairs to buildings, cost plus 10%. John F. Attenhofer, (1) $29,978, (2) $1567, (3) $3658, (4) $3747; wharf, $17,096. F. L. Bixler, (1) $28,430, (2) $1465, (3) $1190, (4) $3750. Lester F. Alexander, (1) $31,777, (2) $1152, (3) $3814. (4) $4423; wharf, $16,860. Henry Monk, Pensacola, Fla., (1) $30,864, (2) $850, (3) $4250, (4) $6375; wharf, $14,736. John Reiss, wharf, $21,290. Jefferson Construction So., (1) $42,290, (2) $1666, (3) $8104, (4) $6095; wharf, $29,815. Doullout & Williams, wharf, $19,000. All bidders of New Orleans except Henry Monk. Noted July 9.

Stone—New Orleans, La.—All bids received June 20, by Maj. Edward H. Schulz, Corps Engrs.., U. S. A., for furnishing and placing stone on the jetties at Southwest Pass have been rejected. Noted May 28.

Lift Bridge—Louisville, Ky.—Bids were received July 15, by Maj. J. C. Oakes, Corps Engrs., U. S. A., for furnishing and constructing a direct lift bridge over the Louisville & Portland Canal at 18th St., Louisville, as follows: American Bridge Co., $50,991; Penn Bridge Co., Beaver Falls, Penn., $39,428; A. W. Kurz, New York, $43,664; Independent Bridge Co., Pittsburgh, Penn., $41,815; Strobel Steel Construction Co., Chicago, Ill., $49,770; Grainger & Co., Inc., Louisville, Ky., $39,575. Noted June 18.

+Building—Cincinnati, Ohio—The contract for the erection of the building for the U. S. Weather Bureau at Cincinnati has been awarded to the OHIO BUILDING & CO STRUCTION CO., Cincinnati, Ohio, at $15,900. Noted July

+Scows—Cincinnati, Ohio—The contract for constructi and delivering 10 steel dump scows has been awarded to t AMERICAN BRIDGE CO., Cincinnati, Ohio, at $7775 ea Noted July 16.

Lumber—Detroit, Mich.—Bids will be received until p.m., July 25, by the Light House Inspector, Detroit, for fu nishing lumber for cribs and forms for piers in Livingsto Channel, Detroit River, Mich.

Building—(Mackinac Island, Mich.)—All bids have been jected by the General Superintendent of the U. S. Life Savi Service, Washington, D. C., for constructing the life savi station at Mackinac Island, Mich. Revised plans are bei prepared for this work. Noted July 16.

Building—Port Austin, Mich.—Bids were received, July 1 by the General Superintendent of the U. S. Life Saving Se vice, for constructing a boathouse and accessories for th Port Austin life saving station, from Frame & Mihlethale Harbor Beach, Mich., at $14,838; August Tildemann, Luding ton, Mich. ,$13,522. Noted July 2.

Breakwater—Calumet River, Ill.—Bids were received Jul 6, by Lieut.-Col. W. V. Judson, Corps Engrs., U. S. A., fo repairing with timber, superstructure of the breakwater a Calumet Harbor, Ill., as follows: Robert Love & Son, Muskegon, Mich., $50,278; Burke, Smith & Nelson, Muskego Mich., $34,743; Byrne Bros. D. & E. Co., Chicago, Ill., $86,84 Great Lakes Dredge & Dock Co., Chicago, Ill., $29,132 (recommended for acceptance). Noted June 11.

Post Office—Delavan, Wis.—Bids were received as follows, July 16, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Delavan, (a) limestone. (b) sandstone: Northern Construction Co., Milwaukee, Wis., (a) $41,374, (b) $41,850; General Construction Co., Milwaukee, Wis., (a) $42,075, (b) $42,548; American Construction Co., Milwaukee, Wis., (a) $48,900, (b) $49,200; H. H. Shields, Danville, Ill., (a) $41,380; J. P. Cullen Construction Co., Janesville, Wis., (a) $43,129, (b) $43,800. Building to be two stories and basement, approximately 3580 sq.ft. ground area, brick facing, composition roof and first floor of fireproof construction. Noted June 11.

Stone—Milwaukee, Wis.—Bids were received May 22, by the Lighthouse Inspector, for furnishing and delivering 3600 tons of stone riprap at White Shoal light station, Lake Michigan, from T. L. Durocher, Sault Ste. Marie, Mich., $5400; Sturgeon Bay Stone Co., Sturgeon Bay, Wis., $7200. Noted May 14.

Steel Boat—Duluth, Minn.—Bids will be received until noon, Aug. 10, by Maj. E. D. Peek, Corps Engs., U. S. A., for constructing the steel hull, steam survey boat "General C. B. Sears."

Levee—St. Louis, Mo.—Bids will be received until 11 a.m., Aug. 11, by Maj. Clarke S. Smith, Corps Engrs., U. S. A., International Life Bldg., St. Louis, Mo., for constructing about 130,000 cu.yd. of earthwork in the Shy Island drainage district, Ill.

★Dredging—Port Arkansas, Tex.—Bids will be received until noon, Aug. 12, by Lieut. Col. C. S. Riche, Corps Engrs., U. S. A., Galveston, Tex., for dredging at Port Arkansas, Tex.

★Roads, Walks, Etc.—Fort Bliss, Tex.—Bids will be received until 11 a.m., Aug. 13, by Capt. Wm. E. Hunt, Depot Quartermaster, El Paso, Tex., for constructing roads, walks, gutters and drains at Fort Bliss, Tex.

★Riprap, Etc.—Galveston, Tex.—Bids will be received until noon, Aug. 15, by Lieut.-Col. C. S. Riche, Corps Engrs., U. S. A., Galveston, for placing riprap and soil with sod at Federal Quarantine Station, Galveston, Tex.

Wharf—San Diego, Salif.—It has been decided to abandon the project for a timber and pile wharf at San Diego. Noted June 18.

+Dredging—San Francisco, Calif.—The contract for dredging in the San Joaquin River has been awarded to the STANDARD AMERICAN DREDGING CO., San Francisco, Calif., at $11,146. Noted June 11.

Centrifugal Pumps, Etc.—Panama—Bids will be received until 10:30 a.m., Aug. 3, by Maj. F. C. Boggs, Gen. Pur. Officer, Isthmian Canal Comn., for furnishing centrifugal pumps, cast-iron pipe fittings, venturi meters, fuse panels, electric cable, galvanized conduit, etc., at Panama.

★Steel Castings—Philippine Islands—Bids will be received until noon, July 20, by Col. S. D. Roessler, Corps Engrs., U. S. A., Army Bldg., New York, N. Y., for furnishing steel castings for the Philippine Islands. Noted July 16.

MISCELLANEOUS

Dredging—Boston, Mass.—Bids will be received until 11 a.m., July 28, by the Board of Harbor and Land Commissioners, State House, Boston, for dredging a channel and basin, 5 ft. deep at mean low water, at Cataumet Harbor and Squeteague Pond, requiring the dredging of about 100,000 cu.yd. of material.

+Fire Station—South Waltham, Conn.—The city has awarded the contract to DOYLE & MURPHY, 803 Main St., Willimantic, Conn., for constructing a two-story fire station, 36x36 ft., at about $10,000. It will be of brick and steel.

★+Barge Canal Terminals—Albany, N. Y.—Bids were received July 7, by Duncan W. Peck, State Supt. Pub. Wks., Albany, for constructing barge canal terminals at Gowanus Bay, Brooklyn, N. Y., and on Lake Ontario, Oswego, N. Y. The bids follow: Gowanus Bay Terminal: GEORGE W. ROGERS & CO., INC., 29 Broadway, New York, $313,100 (awarded contract); Maryland Dredging & Contracting Co., Medina, N. Y., $320,975; Eugene Breymann, New York, $326-829; P. J. Carlin Construction Co., New York, $331,753; Canal Construction Co., New York, $365,116; Phoenix Construction Co., New York, $371,253; United States Realty & Improvement Co., New York, $385,611; John Monks & Sons, New York, $746,719. Oswego Terminal: H. S. KERBAUGH, INC., Church St., New York, $148,684 (awarded contract); D. L. Taylor, Medina, N. Y., $371,978; Great Lakes Dredge & Dock Co., Buffalo, N. Y., $374,257. The item regarding the Oswego Terminal was noted July 16. Noted June 11.

Canal Work—Albany, N. Y.—Bids will be received by Duncan W. Peck, State Supt. Pub. Wks., Albany, until noon, Aug. 11, for Contract 1-A, Champlain Canal, Sect. 2, for completing the construction of the canal from Crocker's Reef to Fort Edward; length 4.45 miles; engineer's estimate, $90,[illegible]11. For constructing certain highways adjacent to the Hinckley Reservoir, Herkimer and Oneida counties, Sects. 3, 4, 5, 7, 8, 9, 10 and 14, and completing the work on or before Jan 1, 1915; engineer's estimate, $99,120. For Terminal Contract No. 34, for constructing a dockwall on the east bank of the Hudson River at Thomson, near the Northumberland Dam; engineer's estimate, $18,857.

★Lockers—Albany, N. Y.—(Official)—Bids will be received by Franklin W. Ward, Secy. of the State Armory Comn., until 4 p.m., Aug. 10, for lockers for state armories.

✚Dredging—Buffalo, N. Y.—The city has awarded the contract to the GREAT LAKES DREDGE & DOCK CO., Buffalo, for dredging and widening the Buffalo River from Abbott Rd. to Seneca St., at $380,000. Incorrectly noted July 9 as $38,750.

★Refrigeartion Equipment—Comstock, N. Y.—(Official)—Bids will be received by John B. Riley, Supt. State Prisons, Capitol, Albany, until noon, Aug. 6, for the installation of refrigeration equipment in the storehouse, for the mess hall and kitchen building at the Great Meadow Prison, Comstock.

Elimination of Grade Crossing—(Viaduct)—Camden, N. J.—The Pennsylvania R. R. Co. plans to construct a viaduct at White Horse Pike and Ferry Ave. to eliminate the grade crossing at that point. Estimated cost, $140,000.

Dock—Trenton, N. J.—The Board of City Commissioners has approved plans for a 500-ft. municipal dock. Estimated cost, $50,000. J. R. Fell, Jr., is City Engr.

✚Comfort Station—Baltimore, Md.—The contract has been awarded by the city to P. J. CUSHEN, 217 St. Paul St., Baltimore, at $15,780, for the construction of a comfort station at Louisiana Ave. and Jasper St. It will be of semi-fireproof construction. Plans and specifications were prepared by Thomas C. Kennedy, Arch., 211 North Calvert St., Baltimore.

Retaining Wall—Easton, Md.—Bids will be received, until Juyl 28, by the Talbot County Commissioners, J. B. Harrington, Clk., for the construction of retaining wall for a distance of 366 ft. along the Miles River at the Easton approach the Miles River. Plans and specifications are at the offiec of the State Roads Commissioners, Baltimore, Md.

Dock and Railroad Bonds—Pensacola, Fla.—The City Commissioners will receive bids until Aug. 14 for $400,000 of municipal dock and belt railroad bonds.

Drainage Bonds—Tallahassee, Fla.—Bids will be received until Aug. 20 by the Secretary of the Board of Drainage Commissioners, Tallahassee, for $1,000,000 of drainage bonds.

Canal—Marks, Miss.—The Morgan Engineering Co., Memphis, Tenn., has recommended the construction of a drainage canal in Tazoo Coldwater Drainage District, from Marks, Miss., to Askew, Miss. Estimated cost, $600,000.

Drainage—Donaldsonville, La.—The Commissioners of Smoke Bend Drainage District of Ascension Parish have voted to issue $10,500 in bonds for drainage work.

Levee Work—New Orleans, La.—(Official)—Bids will be received until 4 p.m., July 28, by the Board of Levee Commissioners of the Orleans Levee District, New Court Bldg., New Orleans, for constructing levees from the Parish Line to Canal St. Ferry, from Canal St. Ferry to Algiers Saw Mill, and the Beka Levee. The work calls for 197,000 cu.yd. of earthwork and 4500 sy.yd. of concrete facing or paving. C. J. Donner is Secy.

✚Vessel—Memphis, Tenn.—The Lee Line has awarded the contract to JOHN ROHAN & SONS, St. Louis, Mo., for constructing an all-steel steamer to ply between Memphis, Tenn., and St. Louis.

Fire Apparatus—Cleveland, Ohio—Bids will be received by the Commissioner of Purchases and Supplies, Room 513, City Hall, until noon, July 24, for furnishing and delivering apparatus for the department of fire. Thomas L. Sidlo is Dir. Pub. Safety.

✚Retaining Wall—Youngstown, Ohio—The city has awarded the contract, it is reported ,to CAMPBELL BROS. for constructing a retaining wall along the park drive, at $66,394.

Ditch—Warren, Ohio—Bids will be received until Aug. 4 by the County Auditor, Warren, for ditch work aggregating 46,562 cu.yd. of excavation.

✚Drainage—Kankakee, Ill.—The Commissioners of Little Beaver Drainage District, Kankakee, awarded the contract, July 1, to the NATIONAL DRAIN TILE CO., for drainage improvements to cost $63,000. Noted June 25.

✚Ditches—Janesville, Wis.—Bass Creek Drainage District has awarded the contract to the WARNER DREDGE CO., Valley Junction, Wis., for constructing drainage ditches aggregating 164,700 cu.yd., at $14,193.

Docks and Warehouse—Milwaukee, Wis.—Schnetzky & Son, Archs., Germania Bank Bldg., Milwaukee, will ask for bids soon for the construction of docks and a warehouse at the foot of Erie St.

✚Drain—Fort Dodge, Iowa—Contracts for Drain 191 have been awarded by the county as follows: Labor, to SARGENT TILE DITCHER CO., Fort Dodge, at $5526; material, to the LEHIGH SEWER PIPE & TILE CO., Fort Dodge, at $13,732.

Ditch—Slayton, Minn.—The County Commissioners, July 7, received bids for constructing Ditch No. 29. The contract has been awarded to P. B. Jennings, Wanda, Minn., at $22,769.

✚Tunnel—Paola, Mont.—See item under Railways: Montana-Great Northern Ry.

Park Work—Corpus Christi, Tex.—A bid was received July 7 by the city for improving Bluff Park, from Davis Bros., Houston, Tex., at $10,998.

Levees—Austin, Tex.—Arthur Stiles, State Reclamation Comr., Austin, plans to construct a system of levees for flood protection in Fannin, Woods, Dallas, Ellis and Navarro Counties.

✚Grandstand—Galveston, Tex.—The Executive Committee of the Racing Association, July 1, awarded the contract to M. C. DOWDEN, Galveston, for constructing the proposed new grandstand. It will be 618 ft. long.

Natatorium—Seattle, Wash.—J. Merrill Brown, Arch., Seattle, has been commissioned by Erwin Baruch, 1621 Summit Ave., Seattle, to prepare plans for a natatorium to be constructed at Western Ave. and Virginia St., at a cost of $100,000.

Coal Handling Equipment—Astoria, Ore.—Bids will be received until Aug. 15 by the Port of Astoria Commission for coal handling equipment. Estimated cost, $50,000. F. J. Walsh is Sh. Engr. Comn.

Barn—Portland, Ore.—Bids will be asked by the city in August for constructing the proposed fireproof barn at 16th and Jefferson Sts. Estimated cost, $50,000.

Dock—Portland, Ore.—The Oceanic Dock, owned by the city, will be rebuilt at once. The dock was destroyed by fire recently. Estimated cost, $150,000.

Drainage—Knights Landing, Calif.—The residents of the Knights Landing Drainage District have completed financial arrangements for the construction of a ditch to drain 72,000 acres between the Yolo Bypass and Colusa Basin. The work is estimated to cost $800,000. P. A. Haviland, Oakland, Calif., is Engr. Noted July 2.

Shipyard and Drydock—Los Angeles, Calif.—The Harbor Commissioners, July 7, decided to have plans prepared for a municipal shipyard and drydock. Estimated cost, $1,000,000. Homer Hamlin is City Engr.

Levees—Sacramento, Calif.—The State Reclamation Board, Sacramento, has decided to construct the east levee of the Sutter bypass, the north levee of the Tisdale bypass and the west levee of the Sutter bypass. Estimated cost, $1,000,000

Levees—Sacramento, Calif.—The state plans to spend $50,00 to strengthen the bank levees of the Sacramento and San Joaquin Rivers.

✚Pier—San Francisco, Calif.—The following bids have been received by the State Harbor Commissioners for constructing Pier 25: Clinton Fireproofing Co., $455,800; F. A. Koetz, $480,00; San Francisco Bridge Co., $414,937; HEALY-TIBBITTS CONSTRUCTION CO., San Francisco, $368,300 (awarded contract); Dunnavant-Houghton-Van Sant Co., $560,000.

✚Ferry Slips—San Francisco, Calif.—Bids have been received as follows by the State Harbor Commissioners for passenger ferry slips Nos. 9 and 10: F. A. Koetz, $127,500; San Francisco Bridge Co., $102,850; Thomson Bridge Co., $96,315; HEALEY-TIBBITTS CONSTRUCTION CO., San Francisco, $91,700 (awarded contract). Noted June 25.

Ferry Annex—San Francisco, Calif.—Plans have been prepared by the engineers of the State Harbor Commissioners for a one-story ferry building annex.

✚Grading—San Francisco, Calif.—The Board of Public Works has awarded a contract for grading the civic center site to T. W. McCLENAHAN & CO., San Francisco, at $54,860; also a contract for grading the 17th St. car barn site to DANIEL O'DAY & CO., San Francisco, at $34,850.

Bath-house—Santa Barbara, Calif.—H. Alban Reeves, Arch., Chamber of Commerce Bldg., Los Angeles, is completing plans for the bath-house to be constructed for the Southern California Edison Co. It will be two stories, 200x80 ft., of brick and concrete. Estimated cost, $50,000.

Seawall—Santa Barbara, Calif.—George P. Robinson, City Engr., has completed plans for the seawall to be constructed along the west boulevard. It will be of reinforced concrete. Estimated cost, $72,414.

Fire Station—South Pasadena, Calif.—The town plans to construct a fire station to cost $10,000.

Wharf—Mochelle, N. S.—Bids will be received until July 31, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for constructing a wharf at Mochelle. It will be 520x20 ft.

Harbor Work, Wharf Extension—Windsor, N. S.—Bids will be received until July 31 by R. C. Descrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for harbor improvements at Windsor, including the extension of the government wharf.

Cable—Toronto, Ont.—Bids will be received until July 30 by the Toronto Electric Commissioners for lead-covered cables.

Subway—Montreal, Que.—Bids will be received until noon, July 30, by the Board of City Commissioners for constructing a subway in Park Ave. J. E. Vanier, Beaver Hall Sq., Montreal, is Engr.

Steel Gates, Etc.—Ottawa, Ont.—Bids will be received by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, for steel gates, towers and operating machinery for the regulating dam, Big Chaudiere Falls, French River, Ont.

✚Canal—Ottawa, Ont.—The Canadian Government has awarded the contract to the RANDOLPH MacDONALD CO., Toronto, Ont., for constructing Sect. 3 of the Trent Canal, at $901,141.

★Ash and Coal-Handling Apparatus—Toronto, Ont.—(Official)—Bids will be received by H. C. Hocken, Mayor and Chn. Bd. of Control, until noon, Aug. 18, for the installation of ash- and coal-handling apparatus at the main pumping station. For details see advertisement under "Contracts To Be Let."

Ditches—Dauphin, Man.—Bids will be received by J. A. Gorby, Clk., Rural Municipality of Dauphin, until noon, July 25, for ditching in parts of Township 26, Range 19, and parts of Townships 27 and 28 in Ranges 18 and 19, in Dauphin.

Wall—Kamloops, B. C.—Surveys have been completed for the proposed retaining wall to be constructed along the bayshore, west of the Second St. dock.

BUILDINGS

Adams, Mass.—C. T. Plunkett, F. R. Shaw and L. A. Weston are interested in erecting a $50,000 theater.

+Boston, Mass.—The contract for erecting the business block at Jersey St. and Brookline Ave., Roxbury Distirct, has been awarded to the NATIONAL FIREPROOFING CO. The building will be of brick, two stories, 138x250 ft. Arthur H. Bowditch, 44 Bromfield St., is the Arch.

+The contract for building the apartment on St. Luke's Road, Brighton, for Mary C. Goode, has been awarded to ROBERT M. GOODE, 382 Kenrick St., Newton. The building will be of brick and limestone and is estimated to cost $100,000. Louis P. McCarren, 240 Howard St., Brookline, is the Arch.

Leonardo Squillaciotti, 320 North St., will build a five-story brick business and apartment building at North and Clark Sts. E. L. Rawson, 6 Beacon St., is the Arch.

+Cambridge, Mass.—The B. P. O. E. has awarded a contract for building a three-story brick, stone and terra cotta building, 90x100 ft., to JOHN C. BYRNE, at about $90,000. C. R. Grew is the Arch.

Exeter, Mass.—The Trustees of Phillips-Exeter Academy, have decided to rebuild the administration building, recently destroyed by fire. The estimated cost is $100,000. Ralph A. Cram, 15 Beacon St. is the Arch.

Holyoke, Mass.—T. Beaudoin, 302 Chestnut St., will build a five-story brick apartment at Appleton and Walnut Sts. Oscar Beauchemin is the Arch.

+South Hadley, Mass.—The contract for constructing the Alumnae Bldg. for Mount Holyoke College has been awarded to the CASPER RANGER CONSTRUCTION CO., Holyoke. The estimated cost is $200,000. Walter F. Price, 731 Walnut St., Philadelphia, Penn., is the Arch.

Springfield, Mass.—The Odd Fellows contemplate constructing a $50,000 building. James L. Shannon is Chn. of the Bldg. Comm.

Springfield, Mass.—W. F. A. Engel is interested in the building of a studio on Broadway, to cost about $40,000. E. C. & G. C. Gardner, with H. L. Sprague, are preparing the plans.

West Newton, Mass.—The West Newton Savings Bank will erect a brick and stone building at Washington and Highland Sts. Thomas M. James, 15 Ashburton Place, Boston, is the Arch.

Worcester, Mass.—Bids will soon be asked by the Trustees of Worcester Academy for building a brick gymnasium at Penn and Union Sts., to cost about $100,000. Peabody & Stearns, 53 State St., are the Archs.

Pawtucket, R. I.—The lowest bid submitted to the School Committee for constructing the 12-room school in the Darlington Section was that of the Frank E. Rowley Co., Pawtucket, at $64,675.

Pawtucket, R. I.—Plans have been completed by R. C. N. Monahan, Arch., Westminster St., Providence, for constructing the three-story and basement school on Abbott St.

Hartford, Conn.—It is reported that Merry & Boomer, Hotel Taft, New Haven, plan the erection of a hotel in Hartford, to cost about $2,000,000. Warren & Wetmore, New York, N. Y., are the Archs.

+Greenwich, Conn.—The contract for constructing the three buildings for Mrs. Nathaniel Witherell, who will present them to the Young Men's Christian Association, has been awarded to JACOB A. ZIMMERMAN & CO., 18 East 41st St., New York, N. Y., at about $200,000. The buildings will be of brick and artificial stone. M. L. & H. G. Emery, Bible House, New York, N. Y., are the Archs.

+New London, Conn.—The contract for building three buildings at the Connecticut College for Women, on Mohegan Ave., has been awarded to the NORCROSS BROS. CO., New York, N. Y.

Stratford, Conn.—Bids will be received until 5 p.m., Aug. 4, by Frank H. Beckwith, Arch., 16 P. O. Arcade, Bridgeport, Conn., for the erection of a school on Nichols Ave. and building an addition to the Washington School. The buildings will be 65x118 ft. of brick and stone, two stories and basement. Noted July 2.

Buffalo, N. Y.—The Church of the Immaculate Conception is having plans prepared for erecting a church, estimated to cost $80,000. Rev. Thomas Donohue is Rector.

+Buffalo, N. Y.—Frederick Ullman, Mutual Life Bldg., has awarded a contract to GEORGE SCHAFFER & SONS, 262 Kingsley St., for building a theater to cost about $80,000. The building will be of steel, brick and terra cotta. Martin C. Miller, Mutual Life Bldg., is Arch.

+New York, N. Y.—(Borough of Manhattan)—The contract for erecting the 20-story store and office building at 6 West 42d St., for the West 40th St. Co., has been awarded to the GEORGE A. FULLER CONSTRUCTION CO., 111 Broadway. The building will cost about $500,000. Starrett & Van Vleck, Everett Bldg., are the Archs.

+Olean, N. Y.—The general contract for erecting the seven-story and basement bank and office building for the First National Bank has been awarded to the GEORGE A. FULLER CO., 111 Broadway, New York, N. Y. Mowbray & Offinger, 56 Liberty St., New York, N. Y., are the Archs.

Perrysburg, N. Y.—Hager & George, Inc., Ellicott Square Bldg., Buffalo, submitted the lowest bid at $98,000 for constructing two hospital buildings at the J. N. Adams Memorial Hospital. Noted June 4.

Utica, N. Y.—Bids will be received by Green & Wicks, 110 Franklin St., Buffalo, for constructing two theaters for the American Motion Picture Co. The buildings are estimated to cost $225,000. Perry A. Littlefield is Pres. of the company.

+Newark, N. J.—The Fraternal Order of Eagles has awarded the contract for the erection of a four-story lodge building on East Park St., to the ESSEX CONSTRUCTION CO., at $42,510.

Newark, N. J.—The Board of Freeholders has granted the Essex County Park Commission an oppropriation of $200,000, to be used in part for the construction of a new administration building.

Newark, N. J.—Dunn Bros. will build a seven-story brick and concrete office building 76x100 ft. at 22 Clinton St. to cost about $300,000.

West Hoboken, N. J.—(Official)—Bids will be received by the Board of Education until, noon July 28, for constructing the West Hoboken High School. The estimated cost is $[illegible]00,000. Ernest Sibley, Edgewood Lane and Bluff Road, Palisade, N. J. is Arch.

+Columbus, Ga.—(Official)—The city has awarded the contract for erecting and completing the City Hospital to the SOUTHERN FERRO CONCRETE CO., 340 Trust Co. of Georgia Bldg., Atlanta, Ga. Bids are desired by the contractor for furnishing materials and for sub-contracts.

+Memphis, Tenn.—The contract for erecting the theater on Main St. for J. B. Snowden has been awarded to JAMES ALEXANDER CONSTRUCTION CO., Memphis Trust Co. Bldg., at about $63,000.

+Berea, Ohio—The general contract for the erection of the two-story and basement high school has been awarded to F. C. WOLFE, Elyria, Ohio. The estimated cost is $60,000.

Cincinnati, Ohio—Bids will be received until noon, Sept. 1, by George O. Deckebach, Secy., of the Courthouse Building Commission, for the erection of the courthouse and county jail at Cincinnati, Ohio. Rankin, Kellogg & Crane, 1012 Walnut St., Philadelphia, Penn., are the Archs.

+Cincinnati, Ohio—The contract for the erection of the exhibit building for the Merchants & Manufacturers' Permanent Exhibit has been awarded to the ELLENBERGER CONSTRUCTION CO., Chicago, Ill.

Cleveland, Ohio—Bids will be received about July 20, by Walker & Weeks, Archs., 1900 Euclid Ave., Cleveland, for the erection of a three-story, 193x108-ft. high school, on Lee Road. The estimated cost is $200,000.

Cleveland, Ohio—Bids will be received until Aug. 18, by the City Clerk, for the erection of the city hall. The estimated cost is $1,000,000.

Hubbell & Benes, Archs., Citizens' Bldg., Cleveland, are preparing plans for the erection of a reinforced concrete market building, at Lorain Ave. and West 25th St. The estimated cost is $39,950.

Cleveland, Ohio—Bids will be received until noon, Aug. 3, by Frank G. Hogen, Dir .of Schools, Rockwell Ave. and East Sixth St., for the erection of a building at Empire and Parmelee Aves.

Medina, Ohio—Plans are being revised by Kregelius & Robinson, Archs., Leader-News Bldg., Cleveland, for the erection of the two-story and basement home building for the Pythian Sisters of Ohio. The estimated cost is $100,000.

+Indianapolis, Ind.—The contract for the erection of the eight-story department store building for L. S. Ayres & Co. has been awarded to the BEDFORD STONE & CONSTRUCTION CO. The estimated cost is $300,000.

Indianapolis, Ind.—Plans are being prepared by Brookie & Weginnis, Archs., Indianapolis, for the erection of a four-story hotel at Meridian St. and Fall Creek, for the Fall Creek Realty Co. The estimated cost is $600,000.

+Lafayette, Ind.—The general contract for the erection of the building for the Lafayette Lodge B. P. O. E. has been awarded to ALVA E. KEMMER, Lafayette, Ind., at $46,000.

+Ann Arbor, Mich.—The general contract for the erection of the four-story and basement hall building for the Newberry Estate, 1224 Ford Bldg., has been awarded to G. R. CHRISTMAN, South Bend, Ind. The estimated cost is $100,000.

+Detroit, Mich.—The general contract for the erection of the one-story and basement theater for E. H. Hill has been awarded to FRANK FARRINGTON, Scherer Bldg., Detroit. The estimated cost is $160,000. Noted July 2.

Hamtramck, Mich.—Bids will be received until 7 p.m., July 27, by Charles A. Fields, Secy. Bd. of Education, Hamtramck, for the erection of a high school at Hamtramck. George J. Haas, 307 Moffat Bldg., Detroit, is the Arch.

+Perkin, Ill.—The general contract for the erection of the court house at Pekin, has been awarded to ENGLISH BROS., Champaign, Ill. The estimated cost is $200,000.

Urbana, Ill.—Bids will be received until 11 a.m., July 25, by the State Arch., 29 South La Salle St., Chicago, for an addition to the chemistry building at the University of Illinois, Urbana.

+Milwaukee, Wis.—The contract for driving piles to be used in the construction of the addition to the department store of Gimbel Bros., has been awarded to the GREAT LAKES DREDGE & DOCK CO. The estimated cost is $500,000. Noted July 16.

Brust & Philips, Archs., 82 Wisconsin St., are completing plans for the erection of the three-story loft building, for the Badger State Investment Co. The estimated cost is $100,000.

Martin Tullgren & Sons, Archs., 133 Second St., are preparing plans for the erection of a three-story office building at Ninth and Wells Sts. The estimated cost is $50,000.

Leenhouts & Guthrie, Archs., 424 Jefferson St., have completed plans for the erection of the Milwaukee County House of Correction, at North Milwaukee. It will be a group of 12 buildings, two story and basement. The estimated cost is $500,000. Louis G. Widule is County Clk.

+Dubuque, Iowa—The contract for the erection of the building for the B. P. O. E. has been awarded to ANTON ZWACK, Dubuque, at $125,000.

+Barnesville, Minn.—The general contract for the erection of the school at Barnesville, has been awarded to the MASON LUMBER CO., Palisade, Minn., at $39,360. Noted June 18.

Flandreau, S. D.—Bids will be received until July 27, by Warren G. Cowles, Secy., of High School, Commission for the erection of the high school. Joseph Schwartz, S. D. is the Arch.

+Madison, S. D.—The contract for the erection of the high school at Madison has been awarded to the GARNER CONSTRUCTION CO., Madison, at $44,840.

Kansas City, Mo.—Bids will be received until July 27, by Charles A. Smith, Arch., Finance Bldg., for the erection of an addition to the Emerson School, on Tracy Ave. and Pacific St.

Webster Groves, Mo.—Bids will be received until 8 p.m., Aug. 1, by F. E. Miller, Sec., Bd. of Directors, School District of Webster Groves, for constructing a school on Gray Ave. M. P. McArdlo, 1104 Chemical Bldg., St. Louis, is the Arch.

+Dallas, Tex.—The contract for the addition to the Brown School has been awarded to J. M. BROWN, at $31,135.

San Antonio, Tex.—Giles & Murphy, Archs., F Bldg., have prepared plans for the erection of a county poorhouse. The estimated cost is $45,000.

Boillot & Lauck, Archs., Scarritt Bldg., Kansas City, Mo., are preparing plans for the erection of an apartment house and store building at San Antonio. The estimated cost is $120,000.

Eugene, Ore.—The University of Oregon will erect an administration building at Eugene. Bids will be received about Aug. 1.

North Bend, Ore.—J. E. Tourtellotte, Arch., Rothschild Bldg., Portland, has prepared plans for the erection of a four-story hotel at Montana St. and Sherman Ave. The estimated cost is $60,000.

Alhambra, Calif. — Norman F. Marsh, Arch., Broadway Central Bldg., has completed plans for the erection of high school buildings at Alhambra. The estimated cost is $100,000.

+Los Angeles, Calif.—The contract for the erection of the three-story Class C brick building at Los Angeles and 16th Sts., for the College of Dentistry, has been awarded to the HUNTTSBERGER REED CO., Van Nuys Bldg.

CONTRACT PRICE

Bridge—Nanticoke, Penn. — Bids were received by F. R. Hendershoot, Controller, Luzerne County, Wilkes-Barre, for the construction of a reinforced concrete bridge across the North branch of the Susquehanna River, between Nanticoke and West Nanticoke, from (A) P. J. Carlin Construction Co., 1123 Broadway, N. Y.; (B) D. M. Hosser Co., Kingston, Penn.; (C) G. H. Beimard, Bloomsburg, Penn.; (D) Penn Bridge Co., Beaver Falls, Penn.; (E) Dravo Construction So., Pittsburgh, Penn; (F) Whittaker & Diehl, Harrisburg, Penn.; (G) James McLinden & Co., Anglesea, N. J.; (H) Lathrop, Shea & Henwood, Scranton, Penn. The item bids were as follows:

Norwalk, Calif.—Plans are being prepared by George B. McDougall, State Arch., Sacramento, for the erection of the State Hospital for the Insane at Norwalk. The estimated cost is $160,000.

San Fernando, Calif.—Austin & Pennell, Archs., Wright & Callender Bldg., are completing plans for the erection of the school at San Fernando. It will be a one-story and basement, 176x78-ft. structure. The estimated cost is $50,000.

Stockton, Calif.—Bids will be received until noon, July 28, by W. F. McClure, State Engr., Capitol Bldg., for the erection of dairy buildings at the State Hospital at Stockton.

Santa Cruz, Calif.—Bids were received for constructing the Santa Cruz school as follows: R. O. Summers, $51,872; William Bros. & Henderson, $46,162; Boyd, Kerr & McLean, $50,604; Schnebly, Hostrawser & Pedgrift, $53,829; Sound Engineering & Construction Co., $52,000; H. A. Klyce, $45,300; Graham & Jensen, $49,522; Peterson & Wilson, $43,000, plus 4% on all sub-contracts not awarded to them, which will bring their bid to approximately $43,800.

Van Nuys, Calif.—Allison & Allison, Archs., Hibernian Bldg., are completing plans for the erection of a high school at Van Nuys. The estimated cost is $150,000.

Ventura, Calif.—Plans are being prepared by George B. McDougall, State Arch., for the erection of the State Reform School for Girls. The construction will be of frame and plaster. The estimated cost is $75,000.

+Toronto, Ont.—The Toronto Terminals Ry. Co. has awarded the contract for the erection of the union passenger station at Toronto to the PETER LYALL CO., Montreal, Que. The estimated cost is $3,000,000.

Elkhorn, Man.—Bids will be received until 4 p.m., July 31, by H. E. Matthews, Lindsay Bldg., Winnipeg, Man., for the erection of a public building at Elkhorn.

Oak Lake, Man.—Bids will be received until Aug. 4, by R. C. Desrochers, Secy., Dept. of Pub. Wks., for the erection of a public building at Oak Lake.

Winnipeg, Man.—V. W. Horwood, Arch., 261 Frost St., has prepared plans for the erection of an engineering building for the University of Manitoba. The estimated cost is $250,000.

Qu'Appelle, Sask.—Bids will be received by the Director of Contracts, Dept. of Militia & Defense, Ottawa, Ont., for constructing a drill building at Qu'Appelle, Sask.

+Edmonton, Alta.—The contract for the erection of the addition to the Royal Alexandria Hospital has beeen awarded to OLSEN & JOHNSON CO., Missoula, Mont. The estimated cost is $175,000.

BRIDGE, NANTICOKE, PENN.

	A	B	C	D	E	F	G	H
Rock excavation, per cu.yd.	$5.00	$2.00	$3.00	$3.50	$4.00	$5.75	$5.00	$3.50
Wet excavation, per cu.yd.	3.00	1.00	2.50	1.95	2.50	2.00	2.25	1.95
Dry excavation, per cu.yd.	0.50	0.75	1.50	0.95	1.00	0.75	1.25	0.95
Creosoted piles, per lin.ft.	0.45	0.50	0.96	0.55	0.60	0.50	0.65	0.60
Hardwood piles; per lin.ft.	0.35	1.00	0.75	0.50	0.40	0.45	0.55	0.50
Concrete piles, per lin.ft.	2.00	3.00	2.00	2.50	1.45	1.35	2.50	1.50
Pedestal piles, per lin.ft.	1.50	4.00	2.25	2.20	1.45	2.75	2.25	2.20
Simplex piles, per lin.ft.	1.50	4.00	2.25	2.20	1.35	1.27	...	2.30
Concrete, Class A, per cu.yd.	11.00	12.00	12.48	12.00	11.00	11.75	15.00	12.00
Concrete, Class B, per cu.yd.	10.00	10.00	7.65	8.95	6.50	8.75	14.00	8.40
Concrete, Class C, per cu.yd.	9.00	7.00	6.75	6.95	6.00	7.50	12.00	6.95
Structural steel, per lb.	0.045	0.05	0.045	0.039	0.036	0.045	0.045	0.045
Reinforcing rods, per lb.	0.04	0.03	0.045	0.035	0.0275	0.03	0.04	0.035
Concrete sidewalk, per sq.ft.	0.16	0.20	0.20	0.20	0.15	0.20	0.20	0.15
Creosoted "Lug" block, per sq.yd.	2.75	3.50	2.40	2.60	2.50	2.65	3.00	2.60
Other creosoted block, per sq.yd.	2.25	3.75	2.40		2.35	2.75		2.60
Vitrified block, per sq.yd.	2.50	2.00	2.75	2.80	3.00	2.55	2.80	2.00
Belgin block, per sq.yd.	2.75	3.50	3.25	3.50	3.25	3.00	3.50	3.00
Wainwright steel curb, per ft.	0.25	0.20	0.45	0.25	0.25	0.40	0.35	0.25
Extended totals	$281,500	$293,500	$289,500	$288,300	$278,500	$283,847	$281,835	$291,400

The Independent Pneumatic Tool Co., Chicago, has leased a two-story building at 334 St. James St., Montreal, Que., and will open a branch store, where Canadian business will be transacted after Aug. 9. A complete line of Thor pneumatic tools, electric drills, accessories and spare parts will be carried in stock for immediate delivery on orders in Canada. **W. H. Rosever** will have charge of the new office.

Sewers—Plainfield, N. J.—Bids were received by the city, July 6, for constructing sewers, from (A) Di Napoli & Toriello Construction Co., Hackensack; (B) Kelley-McFeeley Co., Camden; (C) T. Foster Callahan, Elizabeth; (D) Charles A. Petersen, Plainfield; (E) Burke & Bonham, Plainfield; (F) Mobus Sabocher Co., Plainfield; (G) John W. Heller, Newark; (H) L. S. Fulton, Elmhurst, N. Y.; (I) James J. Fusco, Newark. The item bids were as follows:

SEWERS, PLAINFIELD, N. J.

	A	B	C	D	E	F	G	H	I
120 lin.ft. 15-in. vitrified sewer	$0.65	$0.62	$0.75	$0.70	$1.25	$1.10	$1.00	$1.30	$1.00
385 lin.ft. 24-in. vitrified sewer	1.25	1.25	1.35	1.50	1.50	1.50	2.00	1.20	1.50
980 lin.ft. 27-in. vitrified sewer under 6 ft. deep	2.05	2.25	1.98	2.70	2.46	2.00	2.55	3.10	2.77
1085 lin.ft. 27-in. vitrified sewer 6 to 8 ft. deep	2.20	2.69	2.31	2.90	2.56	2.40	2.85	3.20	3.27
956 lin.ft. 27-in. vitrified sewer 8 to 10 ft. deep	2.35	2.80	2.72	3.15	2.81	2.80	3.20	3.40	3.77
1283 lin.ft. 27-in. vitrified sewer 10 to 12 ft. deep	2.56	3.18	3.17	3.50	3.47	3.20	3.70	3.75	4.13
1265 lin.ft. 27-in. vitrified sewer 12 to 14 ft. deep	2.76	3.72	3.52	3.90	3.86	4.00	4.20	4.20	4.50
1157 lin.ft. 27-in. vitrified sewer 14 to 16 ft. deep	2.85	3.93	3.82	4.40	4.64	4.40	4.80	4.95	5.00
295 lin.ft. 27-in. vitrified sewer 16 to 18 ft. deep	3.00	4.16	4.12	4.90	5.00	4.80	5.50	5.50	7.00
470 lin.ft. 24x27-in. reinforced concrete sewer	3.65	2.97	3.00	2.35	3.71	4.00	3.00	6.30	8.75
960 lin.ft. 16-in. c.i. sewer	2.78	2.30	2.75	3.00	3.56	2.50	2.50	4.75	3.25
9 manholes, less than 6 ft. deep	38.00	47.47	45.00	40.00	45.00	50.00	45.00	47.50	50.00
7 manholes, more than 6 ft. deep	50.00	63.05	50.00	60.00	55.00	60.00	60.00	55.00	75.00
5 special manholes	60.00	75.79	85.00	40.00	60.00	120.00	70.00	65.00	75.00
48 4-in. T branches on 27-in. sewer	2.50	6.50	6.50	3.00	3.75	7.50	3.00	5.00	10.00
24 extension connections	1.50	2.42	3.00	3.00	1.27	2.00	4.00	12.50	7.00
1020 lin.ft. 4-in. c.i. pipe house connections	0.99	0.70	1.00	0.80	0.45	1.10	0.75	0.75	1.00
300 cu.yd. concrete foundation for 27-in. sewer	3.00	3.13	7.00	2.50	4.00	8.00	7.00	8.75	10.00
1 5x8 ft. metal screen	40.00	30.73	60.00	50.00	45.00	25.00	50.00	50.00	35.00
1 connection with septic tank	15.00	25.00	18.00	10.00	10.00	20.00	100.00	15.00	100.00
2 concrete chambers on 24-in. sewer	40.00	45.00	25.00	28.00	25.00	40.00	50.00	35.00	200.00
1 concrete gate chamber at screen tank	20.00	95.00	25.00	35.00	30.00	60.00	75.00	35.00	200.00
2 27-in. connections with screen tank	7.00	25.00	10.00	7.00	20.00	22.00	75.00	10.00	75.00
2 24-in. openings made in screen tank walls	10.00	25.00	10.00	5.00	20.00	18.00	25.00	10.00	25.00
1 opening in screen tank, enlarged	5.00	25.00	10.00	5.00	10.00	18.00	50.00	10.00	250.00
1 inlet chamber at siphon	300.00	310.00	350.00	225.00	179.00	250.00	200.00	450.00	1500.00
1 outlet chamber at siphon	700.00	1158.00	900.00	860.00	650.00	750.00	500.00	275.00	1700.00
1 connecting manhole at Grant Ave.	90.00	379.00	350.00	125.00	175.00	190.00	75.00	185.00	150.00
Extended totals	$26,896	$32,003	$32,349	$33,562	$34,130	$34,776	$36,127	$41,956	$47,191

Contracts to Be Let

Bids received until July 28, 1914.

Barge Canal Improvements

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS
Albany, June 29th, 1914.

NOTICE TO CONTRACTORS:—

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, July 28th, 1914, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the amendments thereto, as follows:

—1—

CONTRACT NO. 119.

Erie Canal—Section 2.

For furnishing and driving a quantity of steel sheet piling, extending the concrete apron and performing all incidental work connected therewith at Movable Dam Five at Rotterdam, N. Y.

Sheets 1 and 2.

—2—

CONTRACT NO. 120.

Erie Canal—Sections 2 and 3.

Reinforcement of the superstructures of the following seven movable dams over the Mohawk River:

Dam 5 at Rotterdam, Station 1662 + 45, Erie canal.
Dam 6 at Cranesville, Station 1987 + 79, Erie canal.
Dam 7 at Amsterdam, Station 2201 + 46, Erie canal.
Dam 8 at Tribes Hill, Station 2443 + 17, Erie canal.
Dam 9 at Yosts, Station 2954 + 64, Erie canal.
Dam 10 at Canajoharie, Station 3370 + 50, Erie canal.
Dam 11 at Fort Plain, Station 3553 + 85, Erie canal.

Sheets 1 to 15 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the City of Albany or New York, issued by a national or State bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

DUNCAN W. PECK,
Superintendent of Public Works.

⁂

Bids received until Aug. 8, 1914.

Power House, etc.

NOTICE TO CONTRACTORS.—Sealed proposals for construction of Power House, including boiler plant piping and conduits, plumbing and electric work; construction, heating, plumbing and electric work for five cottages and dormitory; sewerage and sewage disposal plant and water supply works, for the New York State School of Agriculture on Long Island near Farmingdale, N. Y., will be received by Dr. Franklin W. Hooper, Secretary of the Board of Trustees, 30 Lafayette Avenue, Brooklyn, N. Y., until 10 o'clock a.m. on Saturday, August 8, 1914, when they will be opened and read publicly. Bids will be received for each division of the work separately and no combination of bids will be considered. Proposals shall be submitted on the blank form and in sealed envelope addressed to the Secretary, furnished by the State Architect. This envelope shall also contain certified check in the sum of 5% of the amount of bid. Each contractor to whom an award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 1930, 1931, 1932, 1933, 2010, 2012, 2014, 2013, 2015, 1901 and 1902. The right is reserved to reject any or all bids. Drawings and specifications may be consulted and blank forms of proposal obtained at the office of Mr. A. A. Johnson, Director, Farmingdale, N. Y., and at the office of the State Architect. In applying for plans and specifications, each bidder must state which part of the work, such as construction, heating, plumbing and electric work, he intends to bid. On and after July 14, 1914, drawings and specifications and blank forms of proposal may be obtained at the office of the State Architect upon deposit of a certified check (or cash) in the sum of ten dollars ($10.00) made payable to the State of New York, for each part of the work, which check, or cash, will be returned if plans and specifications are sent back in good order to the State Architect.

LEWIS F. PILCHER, State Architect.

⁂

Bids received until August 12, 1914.

Elevated Water Tank

Sealed bids will be received up to 10:00 A.M., August 12th, 1914, by the Pekin Water Works Company, Pekin, Ill., at the office of the Engineers in Chicago, for removing the present steel tank from the supporting stone tower and constructing and erecting thereon a new steel tank.

Specifications may be obtained at the office of the Engineers.

PEKIN WATER WORKS COMPANY,
W. E. LAUTZ, Secretary.
ALVORD & BURDICK, Engineers,
Hartford Bldg., Chicago.

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ALVORD & BURDICK, Engineers,
Hartford Bldg., Chicago.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS

Maine—Bangor & Aroostook R.R.—This company plans to spend $350,000 for improvements to its line. M. Burpee, Houlton, Maine, is Ch. Engr.

Florida—Memphis & Pensacola R.R.—See item under Tennessee.

Alabama—Alabama, Tennessee & Northern Ry.—This company plans to construct a 25-mile extension from Reform, Ala., to a connection with the Frisco Lines and the Illinois Central R.R. William Toxey, Mobile, Ala., is Ch. Engr.

Mississippi—New Orleans, Mobile & Chicago R.R.—This company has secured the right-of-way for its proposed branch line to connect with the Louisville & Nashville R.R. A. F. Church, Laurel, Miss., is Supt.

Tennessee—Memphis & Pensacola R.R.—This company plans to issue $14,000,000 in bonds for completing its proposed line from Memphis, Tenn., to Pensacola, Fla. N. Buck, 1401 Borland Bldg., Chicago, Ill., is interested. Noted Sept. 18, 1913.

Tennessee—Nashville, Shiloh & Corinth R.R.—Wayne County, Tenn., it is reported, has voted in favor of issuing $150,000 in bonds to aid this company in the construction of its proposed line. Waynesboro, Tenn., is the county seat of Wayne County.

Kentucky—Forman-Earl Co.—This company plans to construct a 25-mile standard-gage railroad from Ida May, Ky., to Buffalo, Ky. T. C. Feller, Lexington, Ky., is interested.

Ohio—Pittsburgh, Cincinnati, Chicago & St. Louis Ry.—The Ohio State Utilities Commission has authorized this company to issue $3,500,000 in bonds to provide for proposed improvements. W. C. Cushing, Pittsburgh, Penn., is Ch. Engr. M. W.

Ohio—Chesapeake & Ohio Northern R.R.—This company, a subsidiary of the Chesapeake & Ohio Ry., was authorized, July 23, by the State Utilities Commission, Columbus, Ohio, to issue $50,000 in bonds for the initial expense of securing rights-of-way for its proposed line from Columbus, Ohio, to Portsmouth, Ohio. F. I. Cabell, Richmond, Va., is Ch. Engr. Noted June 11.

Indiana—Chicago, Indianapolis & Louisville Ry.—This company plans to make improvements to its lines. A. S. Kent, Chicago, Ill., is Ch. Engr.

Wisconsin—Chicago & Northwestern Ry.—This company plans to construct a branch from Kingston, Wis., northeast to Crandon, Wis. E. C. Carter, Chicago, Ill., is Ch. Engr.

South Dakota—Greenville & Southeastern Ry.—This company, July 14, filed articles of incorporation for the construction of a railroad from Rosholt, S. D., to Greenville, S. D. George F. Anderson, Veblen, S. D., is interested.

Montana—Chicago, Milwaukee & St. Paul Ry.—Arrangements for electrifying 140 miles of this company's main line between Three Forks, Mont., and Deer Lodge, Mont., have been completed. Contracts are being awarded for immediate delivery of constructive materials. The division named will be operated by electricity after June 1, 1915. One year later the second division and two years later the third division will be operated by electricity, the three divisions covering 440 miles of mountain line between Avery, Idaho and Lewistown, Mont. Estimated cost, $8,000,000. C. W. Loweth, Chicago, Ill., is Ch. Engr.

Texas—International & Great Northern Ry.—The State Railroad Commission, July 15, approved a bond issue by this company of $245,000 for betterments to its lines. O. H. Crittenden, Houston, Tex., is Ch. Engr.

New Mexico—New Mexico Central R.R.—The bondholders of this company plan to reorganize and construct extensions to Roswell, N. M., and Salt Lake City, Utah. H. A. Coomer, Santa Fé, N. M., is Gen. Mgr.

✚Denver & Rio Grande R.R.—This company has awarded the contract to C. WELLS, Denver, Colo., for grading a 16-mile narrow-gage line from Caliente, Taos County, N. M., to La Madera, to connect with the lumber line of the Hallack & Howard Lumber Co., of Denver, Colo. J. G. Gwyn, Denver, Colo., is Ch. Engr.

Idaho—Emerald Creek Ry.—This company has been incorporated for the purpose of constructing a 25-mile railroad along Emerald Creek. The offices of the company are located at Wallace, Idaho.

Idaho—Chicago, Milwaukee & St. Paul Ry.—See item under Montana.

Utah—New Mexico Central R.R.—See item under New Mexico.

Nevada—Nevada Copper Belt R.R.—This company, it is reported, will be taken over by the Southern Pacific Co. and extended southward. A. J. Oren, Ludwig, Nev., is Gen. Supt.

Washington—Goodyear Lumber Co.—This company located at Port Angeles, Wash., plans to construct a logging road, nine miles long, from Clallam Bay, Wash., to its timber holdings.

✚**California**—The Board of Public Works of San Francisco, Calif., has awarded the contract to the UTAH CONSTRUCTION CO., Ogden, Utah, for constructing a nine-mile railroad and wagon line to the Hetchy-Hetchy dam site.

California—San Diego & Arizona Ry.—This company, it is reported, plans to issue $10,000,000 additional in bonds for proposed extensions. E. J. Kallright, San Diego, Calif., is Ch. Engr. Noted June 18 and June 25.

Quebec—Bids will be received until noon, Aug. 4, by the Commissioners of the Transcontinental Ry. for constructing a "Y" track at Cap Rouge, Que., at a point about 2½ miles west of Quebec Bridge and for completing the St. Malo line. P. E. Ryan, Ottawa, Ont., is Secy. Comrs.

Ontario—London & Lake Erie Ry. & Transportation Co.—This company plans to extend its line. A meeting of directors and shareholders will be held at London, Ont., Aug. 18 to vote on the proposition to issue bonds for the proposed work.

Alberta—Calgary & Fernie R.R.—See item under British Columbia.

British Columbia—Calgary & Fernie R.R.—The Railway Commission of Canada has approved the application of this company to construct a 174-mile line from Fernie, B. C., through Kananaskis Pass and Elbow Pass, thence along the south branch of the Sheep river, through the oil fields and through the Scarcee Reserve into Calgary, Alta. J. R. Lawreyn, S. S. Manahan, Victoria, B. C., and A. Mutz, Fernie, B. C., are interested. Noted July 24, 1913 and Mar. 19, 1914.

ELECTRIC RAILWAYS

Franklin, Mass.—The Dedham & Medway Street Ry. Co. has applied to the City Council for a franchise to construct an electric railway on Main St., from Emmons St. to the Medway line. Noted June 25.

Raritan, N. J.—The Board of Public Utility Commissioners has granted the Jersey Central Traction Co. permission to maintain and operate an electric railway line in Raritan Township. Samuel Barnes, Keyport, is Gen. Mgr. and Pur. Agt.

Parkersburg, W. Va.—Plans are being considered by the Parkersburg, Marietta & Interurban Ry. Co. for the extension of its line on Second St. H. H. Archer, Parkersburg, is Gen. Mgr. and Pur. Agt.

Wilmington, N. C.—The Wilmington & Fort Fisher Ry. Co. has been incorporated to construct and operate an electric railway from Wilmington to Fort Fisher, about 18 miles. The incorporators are H. A. Kure, Lawrence Kure and William L. Kure.

Macon, Ga.—The Macon Ry. & Light Co. contemplates making improvements and extensions to its lines in Macon. L. S. Boggs, Macon, is Gen. Mgr.

Tampa, Fla.—The Export Phosphate Ry. & Terminal Co. has been incorporated to construct and operate an electric interurban railway through Hillsboro and Polk Counties. The incorporators are E. L. Blood, E. A. Pierce and H. E. Capewell.

Donaldsonville, La.—The right-of-way has been obtained from Donaldsonville to Lockport for the construction of the proposed electric railway which will connect Donaldsonville and the Gulf. Alfred Picot, Thibodaux, is interested.

Nashville, Tenn.—The City Council has granted a franchise to the Tennessee & Kentucky Interurban Electric Ry. Co. to construct and operate an electric railway along White's Creek Pike in Nashville. This is part of a proposed line which will connect Nashville, Tenn. and Franklin, Ky. Noted Jan. 15.

East Liverpool, Ohio—The East Liverpool Traction Co. contemplates the extension of its Pleasant Heights line. B. J. Jones is Mgr.

Springfield, Ohio—The Springfield Ry. Co. has applied to the council for permission to extend its line on East High St. between Burnett Road and the Detroit, Toledo & Ironton R.R.

Grand Rapids, Mich.—The Crescent Heights Citizens' Association has petitioned the Grand Rapids Ry. Co. to extend its Plainfield line from Ann to Knapp St. W. E. Livingston, Grand Rapids, is Pur. Agt.

Fort Wayne, Ind.—Plans are being prepared by the Fort Wayne & Northern Indiana Traction Co. for double-tracking its line on Calhoun St. Samuel W. Greenland, Fort Wayne, is Gen. Mgr. and Pur. Agt.

Lafayette, Ind.—The Lafayette & Northwestern Traction Co. has been granted a franchise by the County Commissioners to construct and operate an electric railway through Tippecanoe County. G. J. Thompson is interested. Noted May 28.

Amboy, Ill.—The Northern Illinois Ry. has been purchased and the name changed to the Lee County Central Electric Ry. Co. The new owners plan to extend the line to Rochelle or Ashton. Andrew Aschenbrenner, Amboy, is interested.

Freeport, Ill.—The City Council has granted a franchise to the Freeport Ry. & Light Co. to extend its lines to the southern and western portions of the city. N. H. Pengra, Freeport, is Supt. Noted June 18.

★**Pekin, Ill.**—The only bid received July 6 by the City Clerk for the rehabilitation and equipment of about 3½ miles of municipal electric railway in Pekin was that of the Coffeen Construction Co., Peoria, Ill., at $58,000. Noted July 2.

Peoria, Ill.—The Peoria Electric Ry. Co. has been granted a franchise to double-track its line on Main St. from Elizabeth to Western Ave. R. W. Bailey, Peoria, is Gen. Supt.

Quincy, Ill.—The Quincy Ry. Co. is preparing plans for the extension and improvement of its lines to cost about $80,749. H. E. Chubbuck, Peoria, is Gen. Mgr.

Mayville, Wis.—The Dodge County Electric Ry. Co. has been incorporated to construct and operate an electric railway in Mayville and vicinity. Charles R. Roberts is interested.

Iowa City, Iowa—The Iowa City Electric Ry. Co. is planning to extend its lines into the southern section of the city. J. O. Schulze, Iowa City, is Pres., Gen. Mgr. and Pur. Agt.

Bonner Springs, Kan.—Plans are being considered by the Kansas City, Kaw Valley & Western Ry. Co. for the extension of its line from Bonner Springs to Lawrence. J. D. Waters, Bonner Springs, is Pres.

Hutchinson, Kan.—Preliminary arrangements have been completed and work will soon be started by the Hutchinson & Northern Ry. Co. on the construction of its proposed line to connect Hutchinson and Burrton, about 14 miles. George Theis, Jr., is Pres. Noted Feb. 12.

Olathe, Kan.—Plans are being prepared by the Missouri & Kansas Interurban Ry. Co. for the extension of its interurban line from Olathe to Ottawa. W. B. Strang, Overland Park, is Pres.

Billings, Mont.—The Billings Traction Co. is preparing plans for the extension of its line from Billings to Laurel. John Johnstone, Billings, is Supt., Pur. Agt. and Ch. Engr.

Springfield, Mo.—The Springfield Traction Co. plans to extend three of its lines in Springfield and to construct a line to connect with various towns in the vicinity of Springfield. Charles H. Guckel, Springfield, is Gen. Mgr.

Brownsville, Tex.—Preliminary arrangements are being made by the Brownsville Street & Interurban Ry. Co. for the extension of its lines in Brownsville.

Temple, Tex.—The Southwestern Traction Co. is preparing to extend its street railway in Temple and Belton. W. G. Haag, Temple, is Gen. Mgr. and Pur. Agt. Noted June 18 and 25.

Baker, Ore.—Joseph Kries and John B. Yeon, Portland, are interested in the construction of an electric railway to connect Baker and Eagle Valley, about 45 miles.

Bruneau, Idaho—The Electric Light & Power Co. is making preliminary arrangements for the construction of an electric railway from Bruneau to Glenns Ferry. W. Wallace is Gen. Mgr.

Healdsburg, Calif.—Alfred D. Rowen contemplates the construction of a 12-mile electric railway through Dry Creek Valley. He has applied for a franchise.

Los Angeles, Calif.—The Montecito Ry. Co. has been incorporated to construct and operate an electric railway to connect Griffin Ave., Ave. 43 and Mount Gillig, about 2½ miles. W. D. Lawrence, E. T. Wright and Ross Welch are the incorporators.

San Francisco, Calif.—The Board of Supervisors is considering the extension of the municipal street railway through Golden Gate Park from Tenth Ave. in the Richmond district, to the south site of the park, and the Potrero Ave. line into the Scotch Hill section. J. J. O'Shaughnessy is City Engr.

LIGHT, HEAT AND POWER

North Adams, Mass.—The Hoosac Cotton Mills, North Adams, will soon begin construction work upon a new power plant, the first unit of its new manufacturing plant.

Bridgeport, Conn.—Bids are being received by the United Illuminating Co. for an addition and alterations to Station B, 48 Congress Ave. The cost is estimated at $25,000.

+New Haven, Conn.—A contract for the erection of a boiler house and the installation of the boilers for a heating plant at the city hall has been awarded to JOHN A. HAGAN, 83 Walley Ave., New Haven, at $5980. Other bids were: David H. Clark Co., $7698; Charles W. Murdock Co., $7775; Rourke Bros. Co., $7813.

Syracuse, N. Y.—The Onondaga County Tuberculosis Sanitarium plans the construction of a complete power house. E. E. Palmer is Engr. Frank X. Wood is Pur. Agt.

Jersey City, N. J.—The Public Service Electric Co. has been granted permission to install a new conduit system on Newark Ave., to be used in connection with a new street-lighting system proposed for Upper Newark Ave.

National Park, N. J.—The Fort Mercer Gas Co. has been granted permission by the Board of Public Utility Commissioners to build a gas plant and distributing system in National Park.

Greenville, Penn.—The Mercer County, Light, Heat & Power Co., Greenville, will build a new power plant, to be located near the south end of the Bessemer Bridge over the Little Shenango River.

Pottsville, Penn.—The Reading Coal & Iron Co. contemplates the erection of a high tension power house at Pottsville, to supply the Schuylkill Valley with electricity.

Wilkes-Barre, Penn.—The Borough Council has approved a loan ordinance of $390,000, in which is included an item of $45,000 for underground conduits for police and fire alarm wiring, and a system of conduits for wires and cables. B. K. Finch is City Engr.

Ocean City, Md.—It is reported that the City Council is considering the installation of a municipal electric-light plant, and an illuminated board walk about three miles long.

Fort Defiance, Va.—The Fort Defiance Milling Co. is considering the establishment of a hydro-electric plant to furnish energy in Fort Defiance and New Hope, one and one-half miles distant. J. S. Norford is Mgr.

Logan, W. Va.—Press reports state that the Logan Electric Co. is having plans prepared for the construction of a new power station. F. R. Weller, Hibbs Bldg., Washington, D. C., is Engr.-in-Charge. C. W. Poling, Logan, is Mgr. of the Logan Electric Co.

Georgetown, S. C.—The Santee-Cooper Development Co., Georgetown, plans to construct a canal from the Santee River to the Cooper River, with the ultimate intention of establishing a hydro-electric plant on the Cooper River, to develop 18,000 hp. The energy will be transmitted to a number of neighboring towns. The canal will be about 23 miles long.

Rock Mart, Ga.—An election will be held on Aug. 6 to submit to the voters the question of a $5000 bond issue for extending the municipal electric-lighting system.

Miami, Fla.—The Miami Gas Co. has issued $200,000 in bonds for improvements to its system, including additional pipe lines and a container of 300,000-cu.ft. capacity.

DeGraff, Ohio—Bonds for $7500 have been issued for improvements and additions to the municipal electric-light plant. J. T. Scott is Supt.

Norwood, Ohio—Bids will be received until Aug. 7 for the reconstruction of the electric-light plant and waterworks system for the town of Norwood. Walter G. Franz, 1703 Union Trust Bldg., Cincinnati, is Consult. Engr.

Youngstown, Ohio—Plans have been completed by the Westinghouse, Church Kerr Co., 37 Wall St., New York, for an electric-light plant for the Mahoning County Light Co. The estimated cost of the plant is $1,000,000.

Indianapolis, Ind.—The Chief Engineer of the City Hospital has petitioned the Board of Health to make improvements and extensions to the power plant of the hospital at a cost of $17,000.

Detroit, Mich.—The Utility Power Co. will install a power plant in its new factory, for which plans have been prepared by Preston, Brown & Walker, 1925 Dime Bank Bldg. The building will be of reinforced concrete, four stories, 98x600 ft.

Bloomington, Ill.—The Bloomington & Normal Ry. & Light Co. contemplates making improvements to cost from $20,000 to $25,000. M. G. Linn, Bloomington, is Gen. Supt.

+Urbana, Ill.—The contract for the construction of the new addition to the power house of the University of Illinois has been awarded to FREEMAN & BROOKS, Champaign, Ill., at $44,800. The new equipment will consist of two 500-hp. Babcock & Wilcox water tube boilers, fitted with Greene stokers.

White Hall, Ill.—The City Council is considering the question of installing a municipal electric lighting plant in White Hall.

Estherville, Iowa—(Official)—See item under "Water Supply and Irrigation."

Iowa Falls, Iowa—The Iowa Ry. & Light Co., Cedar Rapids, is seeking a site for its new power plant in Iowa Falls. The company recently secured a franchise. Robert S. Cook, Cedar Rapids, is Pur. Agt. of the Iowa Ry. & Light Co.

Bagley, Minn.—(Official)—Bids will be received until 10 a.m., Aug. 5, by Oscar F. Stenwick, Secy. Water and Light Commission, for the construction of a frame power building, 25- and 60-hp. fuel oil motor, spirits or kerosene oil engines, with generators for the same; a 300-gal. pump and switchboard. J. F. Druar, 312-314-316 Commercial Bldg., St. Paul, Minn., is Consult. Engr. Noted July 9.

Eveleth, Minn.—It is reported that the City Council has offered the Home Electric & Heating Co. $130,000 for its plant. The city plans to take over the property and operate a municipal plant.

Kansas City, Kan.—An election will be held Aug. 25 for the citizens to vote on the question of a bond issue of $650,000 for improvements and extensions to the municipal electric-light and water systems. C. B. Little is City Clk.

Salina, Kan.—The Salina Light, Power & Gas Co. plans to improve its electric-light plant. J. E. Harsh is Mgr.

Miles City, Mont.—The City Council has under consideration the establishment of a heating plant, to cost about $15,000, on either Main or Eighth St. It is proposed to operate the plant in connection with the municipal light and power plant.

Palmyra, Mo.—At an election held July 22, the citizens voted in favor of a bond issue of $32,000 for improvements to the municipal electric-light and water systems. J. L. Simpson is Mgr.

Billings, Okla.—Bonds for $7000 have been voted for the establishment of a municipal electric-light plant in Billings.

Reno, Nev.—The Portneuf Power Co. has been incorporated by A. D. Ayres, E. C. Dalzell and D. C. Papson to supply electrical current for lighting, heating and power purposes.

Drain, Ore. — Plans are being prepared for the installation of a municipal electric-light plant to cost about $6000. Noted May 7.

Sandy, Ore.—The City Council has granted a franchise to the Portland Railway, Light & Power Co., Portland, to supply light and power to this city. A power-transmission line will be constructed from Sandy to the Bull Run power plant, and a transformer station will be erected.

Los Angeles, Calif.—The Pacific Light & Power Corporation will spend $1,000,000 for constructing additional distributing lines and making other improvements in southern California. About $750,000 will be spent in the vicinity of Los Angeles and $250,000 for Ventura County work. A substation, to cost about $170,000, will be built at Second St. and Arrowhead Ave., San Bernardino. E. R. Davis, Los Angeles, is Mgr.

Portola, Calif.—It is reported that R. B. Young will construct and operate an electric-power plant to supply the town of Portola and vicinity.

Tulare, Calif.—The Mount Whitney Power & Electric Co., Visalia, Calif., will build a new substation at Tulare, to cost about $10,000. H. A. Kluegel is Ch. Engr.

+Lachine, Que.—Bids were opened, July 24, by the City Council for conduits for electric wires. The contract has been awarded to DIETRICH, LTD., Montreal, Que., at $51,000.

Dresden, Ont.—The ratepayers have voted in favor of a bylaw for the establishment of a hydro-electric plant. The City Clerk has been instructed to call for bids for equipment for the system.

London, Ont.—The Hydro-Electric Commission contemplates the installation of some new equipment in the power station. H. J. Glaubitz is Mgr.

Regina, Sask.—The County Council will build a new power plant, and extend its distributing system at a total cost of about $380,000. A. E. Chivers is Clk.

Saskatoon, Sask.—The ratepayers have approved a bylaw appropriating $15,000 for the purchase of a site for a new power house.

BRIDGES

★+Cambridge, Mass.—(Official)—Bids were opened July 13 as follows by the city for constructing the Walden St. bridge over the tracks of the Fitchburg R.R.: NEW ENGLAND STRUCTURAL CO., $5923 (awarded contract); Boston Bridge Works, $7200; Cousins Bridge Co., $7989. Noted July 2.

(Official)—Bids will be received until 11 a.m., Aug. 3, by the Board of Commissioners of Middlesex County for the construction of a road and concrete bridge in the towns of Medfield and Sherborn. F. H. Kendall is County Engr. Levi S. Gould is Ch. of Comrs.

+Albany, N. Y.—The contract for the construction of the viaduct over Normanskill Creek at Bethlehem, Albany County, has been awarded to the PENN BRIDGE CO., Beaver Falls, Penn., at $58,234. Noted July 2.

★See item under Miscellaneous: Barge Canal Work—Albany, N. Y.

★Norwich, N. Y.—(Official)—Bids will be received by the town until 1:30 p.m., Aug. 5, for constructing a reinforced concrete arch over the Chasawacta Creek at South Broad St. Irving D. Tillman is Town Clk.

★+Perth Amboy, N. J.—(Official)—Bids were opened July 20 by the Board of Chosen Freeholders, New Brunswick, for constructing a reinforced concrete bridge at Convery Place. The contract has been awarded to H. W. SCHRIMPF, at $33,679. There were 13 bidders. Noted July 2.

+Trenton, N. J.—The Board of Chosen Freeholders has awarded the contract for the reconstruction of the bridge over Shabaconk Creek, on the Lawrenceville Road, to the GINDER CONSTRUCTION CO. Noted June 25.

Doylestown, Penn.—(Official)—Bids will be received until 11 a.m., Aug. 3, by the Commissioners of Bucks County for the construction of a reinforced concrete bridge near Richlandtown, Richland Township. A. D. Martin is County Engr. W. Cadwallader is Clk. of Comrs.

Easton, Penn.—(Official)—Bids will be received until 11 a.m., July 31, by the Commissioners of Northampton County for the construction of County Bridge No. 180 over Monocacy Creek, Moore Township. It will be of reinforced concrete. George F. P. Young is County Controller.

Wilkes-Barre, Penn.—(Official)—Bids will be received until 2 p.m., Aug. 11, by F. R. Hendershot, County Controller, for the construction of a bridge over the North Branch of the Susquehanna River, connecting Eighth St., Wyoming Borough, and the county road in Jenkins Township. David A. Keefe, Athens, Penn., is Engr.

★Baltimore, Md.—(Official)—Bids will be received by the State Roads Commission, until noon Aug. 13, for constructing the Hanover St. bridge. For details see advertisement under "Contracts to Be Let."

+Lonaconing, Md.—The Cty Council has awarded the contract for the construction of a reinforced concrete bridge over Georges Creek on Union St. to WHITTAKER & DIEHL, Harrisburg, Penn., at $5374. Other bids were: F. L. Fredlock, $5655; L. G. Dinterman, $7600; Farris Bridge Co., $7400; Luten Bridge Co., $6638; Brady Bros., $6800; Fuller Bros., $5580. Noted May 21 and July 9.

Floyd, Va.—(Official)—Bids will be received until noon, Aug. 4, by the Clerk of the Circuit Court of Floyd County for the construction of a steel bridge with concrete substructure over Burk's Fork. G. P. Coleman, Richmond, Va., is State Highway Comr.

Lynchburg, Va.—The Common Council has appointed a commission composed of J. P. Pettyjohn, Ernest Williams and William King, to supervise the construction of a $350,000 reinforced concrete bridge over the James River at Lynchburg. The city will contribute $50,000 toward the cost of the bridge, and the remainder will be borne by the Norfolk & Western Ry., the Chesapeake & Ohio Ry. and the Southern Ry. Noted July 16.

+Parkersburg, W. Va.—The Parkersburg-Ohio Bridge Co. has awarded the contract for the construction of the Belpre Bridge across the Ohio River at Parkersburg to HERMAN LAUB, Lewis Bldg., Pittsburgh, Penn., at $430,000. Noted Aug. 14 and Dec. 18, 1913.

Biltmore, N. C.—The Board of Commissioners of Buncombe County, Asheville, has voted an appropriation of $6000 for the construction of a new bridge over the Swannanoa River on the Biltmore Road, provided the Biltmore estate will give $2500 and the Asheville Power & Light Co., $3500 for the same purpose.

Milton, Fla.—It is reported that the Commissioners of Santa Rosa County have decided to build a bridge to connect Santa Rosa and Escambia Counties.

+Batesvile, Miss.—The Board of Supervisors of Panola County has awarded the contract for the construction of a 1400-ft. trestle on Belmont Levee to the MEMPHIS BRIDGE CO., Memphis, Tenn., at $15,250. Noted July 9.

+Memphis, Tenn.—The City Commissioners have awarded the contract for the construction of a reinforced concrete culvert at Front and Saffarans Sts. to GEORGE O. WHITE, Scimitar Bldg., Memphis, at $25,085. List of bidders noted July 23.

Trezevant, Tenn.—It is reported that the County Court of Carroll County will soon award contracts for the construction of two steel bridges over the Obion River near Trezevant.

Louisville, Ky.—Bids will be received until 2 p.m., July 31, by the Board of Public Works for the construction of a reinforced concrete bridge over Beargrass Creek on Dupuy St. between Kentucky and Page Sts. D. R. Lyman is City Engr. Noted Apr. 16.

+Akron, Ohio—The Board of County Commissioners has awarded the contracts for the construction of the Pleasant Valley Bridge over the Tuscarawas River to the BELLEFONTAINE BRIDGE CO., Bellefontaine, Ohio, for the superstructure, and to C. A. WHITE & CO., Conneaut, Ohio, for the substructure. Noted June 25.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 21, by the Board of Commissioners of Hamilton County for the repair of a bridge over Sycamore Creek, Symmes Township. Albert Reinhardt is Clk. of the Bd. of Comrs.

Cleveland, Ohio—The lowest bid received by the Board of County Commissioners for the construction of the Brooklyn-Brighton Bridge was that of T. P. McCort, Akron, Ohio, at $450,000. The Engineer's estimate was $600,000. Noted June 25.

+Dayton, Ohio—The Board of Commissioners of Montgomery County has awarded the contract for the construction of the substructure of Bridge No. 241, Miami Township, to the HEZLEP-SEATON CO., Cleveland, at $36,103.

Delaware, Ohio—(Official)—Bids will be received until noon, Aug. 3, by the Board of County Commissioners, W. V. Aldrich, Audr., for the following bridge construction: Superstructure of Home Bridge over the Scioto River, Concord Township; superstructure of Multzer Bridge over Olentangy River, Liberty Township, and substructure of the east abutment of the Africa Bridge, Orange Township.

Hamilton, Ohio—(Official)—Bids will be received until 10 a.m., Aug. 12, by W. W. Crawford, Audr. of Butler County, for the construction of the substructure and superstructure of a reinforced concrete bridge at the Butterfield Farm, Ross Township.

Marietta, Ohio—(Official)—Bids will be received until noon, Aug. 7, by the Commissioners of Washington County, Marietta, for constructing 16 bridges. All but four will be of reinforced concrete. W. P. Mason, Marietta, is County Engr.

Marion, Ohio—(Official)—Bids will be received until noon, Aug. 7, by the Board of Commissioners of Marion County for the construction of the superstructure of a bridge over the Whetstone River on Retterer Pike, Richland Township. It will consist of one steel span, 175 ft. long and 16 ft. wide. The estimated cost is $6885.

Bids will be received until noon, Aug. 8, by the County Commissioners for building the substructure of a bridge over Willow Swamp Ditch, near the farm of J. Riley, Green Camp Township. V. Perle Garfield is Clk. of Marion County Comrs.

New Lexington, Ohio—The Board of Commissioners of Perry County is considering the construction of a steel bridge in Glenford Township, to cost about $10,000. Bids will be received about Aug. 15. The Commissioners are also contemplating the construction of a bridge over Jonathan Creek, on Main Road, to cost about $7000. Bids will be asked about Sept. 1. Clyde M. Foraker is Audr. of Perry County.

+Toledo, Ohio—(Official)—The Board of Commissioners of Lucas County has awarded contracts for the construction of two bridges over the Miami and Erie Canal, one at Maumee and one at Waterville, to the TOLEDO BRIDGE & CRANE CO. at $9931 and $10,217 respectively. Noted July 2.

Toledo, Ohio—(Official)—Bids will be received until 10 a.m., Aug. 21, by the Board of Commissioners of Lucas County for the construction of five culverts over various streams, and a rip-rap protection wall along the Bay Shore Road on the north bank of County Ditch No. 147, Oregon Township. Charles J. Sanzenbacher is County Audr.

Youngstown, Ohio—Bids will be received by the city until Aug. 7 for constructing a concrete bridge across Andrews Hollow at Fifth Ave. The structure will be 300 ft. long, 75 ft. wide, and calls for about 2200 cu.yd. of concrete. F. M. Lillie is City Engr.

Cairo, Ill.—Press reports state that the Mobile & Ohio R.R. has set aside the sum of $5,000,000 for the construction of a bridge across the Ohio River at Cairo. B. A. Wood, Mobile, Ala., is Ch. Engr. Up to the present time, the Mobile & Ohio R.R. has used the bridge of the Illinois Central R.R. at this point.

+Pontiac, Ill.—A contract for the construction of the Corrigan Bridge, Amity Township, Livingston County, has been awarded to NELSON BROS., Dwight, Ill., at $6700. The bridge will be of reinforced concrete, two spans. Noted Apr. 30.

Chariton, Iowa—(Official)—Bids will be received until 2 p.m., Aug. 3, by the Auditor of Lucas County for the construction of a concrete deck girder bridge. L. A. Hollingshead is County Engr.

Fort Dodge, Iowa—The Board of Supervisors of Webster County is receiving bids for the construction of 15 bridges in the county at an estimated cost of $17,793.

Muscatine, Iowa—The Interstate Bridge & Terminal Co., Muscatine, has petitioned Congress for permission to construct a bridge across the Mississippi River at Muscatine, connecting Illinois with that city. The present bridge is a toll bridge, and the farmers of Illinois desire free access to Muscatine.

Brown Valley, Minn.—Bids will be received until Aug. 6 by L. C. Bigelow, Village Recdr., for the construction of a bridge, 60-ft. span. Plans were prepared by the State Highway Engr., St. Paul.

Little Falls, Minn.—Bids will be received until Aug. 4 by B. Y. McNairy, Audr. of Morrison County, for the construction of State Bridges Nos. 1358 and 1349.

Mankato, Minn.—(Official)—Bids will be received until 2 p.m., Aug. 17, by C. L. Kennedy, County Audr., for the construction of four reinforced concrete bridges, ranging from 50 to 70 ft. long.

+Springfield, Mo.—The County Court of Greene County has awarded the contract for the construction of two large, and nine small bridges in the county to the CANTON BRIDGE CO., Kansas City, Mo., at $11,00.0 E. L. Meeks, who was noted July 23 as having been awarded this contract at $6436, was allowed to withdraw his bid.

Caldwell, Tex.—The Commissioners Court of Burleson County plans to construct a steel bridge over Goodwin Bayou near Tunis.

Corpus Christi, Tex.—It is reported that bids will be received until Aug. 17, by the Commissioners of Nueces County for the construction of a concrete causeway, about 8500 ft. long, across Nueces Bay, connecting the mainlands of Nueces and San Patricio Counties. The estimated cost is $165,000. Bartlett & Ranney, San Antonio, are Consult. Engrs. Noted Sept. 18 and Dec. 25, 1913 and Mar. 26, 1914.

+San Antonio, Tex.—The Commissioners Court of Bexar County has awarded the contract for building three bridges in the county to the ALAMO CONSTRUCTION CO. at $16,581.

Fort Collins, Colo.—Bids will be received until 11 a.m., Aug. 4, by the Commissioners of Larimer County for the construction of 10 bridges, eight to be of concrete, and two larger ones of steel. The estimated total cost is $5500.

Mora, N. M.—(Official)—Bids will be received until noon, Aug. 3, by the Board of Commissioners of Mora County for the construction of the following bridges: Bridge over the Sapello River at Watrous; one over the Mora River at Weber Crossing; one over the Ocate Creek near Colmor and a bridge over Coyote Creek at Lucero. John Gandert is Chn. of the Bd. of Comrs. Tito Melendez is Clk.

+Pocatello, Idaho—The Bridge Commission has awarded the following contracts for the construction of steel and timber bridges in Bannock, Bingham, Bonneville, Fremont, Jefferson, Madison and Twin Falls Counties: IDAHO BRIDGE CO., Pocatello, $28,576; H. W. PERHAM, St. Anthony, Idaho, $16,017; HELMER & MULL, Twin Falls, $4515; OMAHA STRUCTURAL STEEL WORKS, Salt Lake City, Utah, $4300. For the construction of concrete bridges, contracts were awarded to: IDAHO BRIDGE CO., $5708; H. W. PERHAM, $2520; HELMER & MULL, $7694; MANGUM & SON, $3098.

Bellingham, Wash.—Bids will be received until Aug. 4. by the Commissioners of Whatcom County for the construction of a bridge across the Middle Fork of the Nooksack River. W. D. Wallace is County Audr.

Buckley, Wash.—It is reported that the Commissioners of King and Pierce County will build a steel bridge of two 100-ft. spans over the White River between Buckley and Enumclaw. The estimated cost is $36,000, and each county will pay one-half the cost. Noted Feb. 5 and Apr. 16.

Franklin, Wash.—(Official)—Bids will be received until 2 p.m., Aug. 31, by the Board of Commissioners of King County, Seattle, for the construction of a bridge at Franklin. Byron Phelps is Clk. of the Bd.

Ione, Wash.—The Board of Commissioners of Pend Oreille County, Newport, has granted permission to M. Haupt, Ione, for the construction of a 400-ft. wooden pile bridge across the Pend Oreille River at Ione.

Tacoma, Wash.—Press reports state that the Oregon-Washington Ry. & Navigation Co. is having plans prepared for a viaduct from River St. and Puyallup Ave. to the tideflats. It will be about half a mile long, and will cost from $20,000 to $25,000.

+Carlton, Ore.—The Yamhill County Court, McMinnville, has awarded the contract for the construction of a 125-ft. steel bridge across the Yamhill River at Carlton to the COAST BRIDGE CO., at $4499. Other bidders were: Portland Bridge & Building Co., $4500; C. W. Raynor, $4576; Collier & Stevenson, $4690; Ambrose Burdsal Co., $4780; Elliott Contracting Co., $5400; The Construction Co., $7250.

+Oregon City, Ore.—The Clackamas County Court has awarded the contract for the construction of two bridges, one near Barton, and the other near Molalla, to A. C. U. BERRY, Portland, Ore., at $21,247. Each bridge will be 210 ft. long, with piers and approaches. Noted July 2 under Salem, Ore.

Modesto, Calif.—Plans have been completed by E. H. Annear, County Surv. of Stanislaus County, for a steel bridge across the Tuolumne River between Waterford and Hickman. The estimated cost is $29,000.

San Francisco, Calif.—The Board of Public Works plans to reconstruct the Fourth St. Bridge over the channel. The total cost of the work will be between $125,000 and $150,000.

+Santa Barbara, Calif.—The contract has been awarded to GUY S. BLISS, Carpinteria, Calif., for constructing a reinforced concrete bridge, including wing walls, over Carpinteria Creek on the Coast Highway at $10,800.

Bids will be received by the Board of Supervisors, Santa Barbara, until 10 a.m., Aug. 3, for constructing a concrete and steel girder bridge over San Roqui Creek on Hollister Ave., in the Third Road District. C. A. Hunt is County Clk.

The city plans to construct a bridge at De La Guerra St. Estimated cost, $7000.

+Santa Cruz, Calif.—The Board of Supervisors of Santa Cruz County has awarded a contract for the construction of a trestle over Majors Creek on the Coast Road to the KAUFFMAN CONSTRUCTION CO., Oakland, Calif., at $5493.

★Toronto, Ont.—(Official)—Bids will be received untli Oct. 5, by H. C. Hocken, Chn. of the Board of Control, for the construction of a section of the Bloor St. Viaduct. For details, see advertisement under Contracts To Be Let. Noted June 18.

Regina, Sask.—The County Council has appropriated $35,000 for constructing an overhead bridge acrcss the Canadian Pacific Ry. tracks at Hamilton St. Estimated cost, $54,262.

WATER SUPPLY—IRRIGATION

Portsmouth, N. H.—Plans have been prepared by the Board of Public Works for the extension of the Peverly Brook water system.

+Arlington, Mass.—The contract for constructing a water system has been awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa, at $15,350.

Boston, Mass.—Bids will be received by the Meropolitan Water and Sewerage Board, until July 31, for Contract 361, constructing a foundation for the steel reservoir on the summit of Bellevue Hill, West Roxbury District.

+Lowell, Mass.—The city has authorized the construction of a filtration plant to cost $190,000. William L. Vennard is City Engr. Noted July 9.

★Hartford, Conn.—(Official)—Bids will be received by the Board of Water Commissioners, until 3 p.m., Aug. 9, for Nepaug Reservoir Contract No. 7, constructing a gravel surface road south of the Nepaug Reservoir. C. M. Saville is Ch. Engr.

+Albany, N. Y.—The Board of Contract and Supply has awarded the general contract for the construction of the Quackenbush water station to J. C. NOLAN, at $38,700.

North Tonawanda, N. Y.—The Board of Public Works contemplates increasing the pumping capacity of the water system.

★Schenectady, N. Y.—(Official)—Bids will be received by the Board of Contract and Supply until 2:30 p.m., Aug. 5, for constructing a 20,000,000-gal. covered reservoir on Bevis Hill, in Niskayuna. For details see advertisement under "Contracts To Be Let." Noted May 21.

Sidney, N. Y.—Plans for constructing a municipal waterworks system have been prepared by Henry W. Taylor, 100 State St., Albany, and have been submitted to the State Conservation Commission for approval. Estimated cost, $125,000. Julius Hall is Chn. of the Water Bd.

+Waterford, N. Y.—The contract for making improvements to the water system has been awarded to the NEARY BROTHERS CONSTRUCTION CO., Cohoes, at $7375.

★Blairsville, Penn.—(Official)—Bids will be received by the Town Council until 8 p.m., Aug. 11, for a pumping engine. H. R. Wiley is Secy. For details see advertisement under "Contracts To Be Let."

East Stroudsburg, Penn.—Plans have been approved by the City Council for the construction of a dam to cost $50,000 on the Van Why farm.

+Harrisburg, Penn.—(Official)—Bids were received July 20, by H. F. Bowman, Comr. of Pub. Safety for laying water main in Front and Market Sts. The contract has been awarded to M. F. SAUL, Harrisburg, at $5528. Other bidders were; the Johnson Construction Co., $6344 and Henry Opperman, $7307. Noted July 16.

+Philadelphia, Penn.—(Official)—Contracts for constructing the Belmont Pumping Station, under Contract No. 232, have been awarded as follows: Boilers, to the WICKES BOILER CO., at $55,761; piping, to WILLIAM ANDERSON, at $20,450; blast fans and turbines, to the KERR TURBINE CO., at $3188; centrifugal pumps, to the DRAVO-DOYLE CO., at $79,750; miscellaneous pumps, to the EARLE GEAR & MACHINE CO., at $5800; water softening tanks, to JOHN BAIZLEY, at $5673, and hydraulic lift, to ROBERT WETHERILL CO., at $2232. Noted Apr. 16.

★Shippensburg, Penn.—(Official)—Bids will be received by John E. Coffey Secy. Borough Council until 8 p.m., Aug. 7, for 19,100 lin.ft. of 10-in. c.-i. water pipe with valves, blowoffs and special castings.

Charleston, S. C.—Bonds for $30,000 have been voted, the proceeds of which will be used for the extension of the water system.

Walterboro, S. C.—At a recent election bonds for $18,000 were voted, the proceeds of which will be used for the installation of a water system.

Winnsboro, S. C.—An election will be held Aug. 4 to vote on the proposition of a bond issue of $100,000 for the installation of a water system.

Woodruff, S. C.—On July 7 bonds for $60,000 for the installation of a water and a sewer system were voted. J. E. Ezell is Clk. Noted June 18.

Knoxville, Tenn.—H. B. Long, of the Tennessee Inspection Bureau has made an investigation of the water plant and advised the Board of Commerce to have the storage reservoir enlarged and to increase the pumping facilities.

Columbus, Ohio—Bids will be received by the city until noon, Aug. 11, for installing an alum plant in connection with the water system. J. O'Shaughnessey is Supt. of Water Wks.

Delta, Ohio—Bids will be received by the village until Aug. 10 for the extension of the water system.

Ironton, Ohio—Plans for the construction of a filtration plant costing $300,000 have been approved by the City Council. The plans have been forwarded to the State Board of Health for its approval.

Lowellville, Ohio—James J. Durney has received a franchise from the City Council and will construct a water works and lay about five miles of mains. Noted May 28.

Norwood, Ohio—See item under "Light, Heat and Power."

Mishawaka, Ind.—The city will purchase water meters at an estimated cost of $30,000.

Rochester, Ind.—Bids will be received by W. C. Miller, County Audr., until 2 p.m., Aug. 4, for installing a pneumatic or an auto-pneumatic water system at the poor farm.

East Peoria, Ill.—(Peoria post office)—The Village Council has authorized the construction of a water system. Arthur M. Morgan, Harris Trust Bldg., Chicago, is the Engr.

Little York, Ill.—(Official)—Bids will be received by W. H. Brown, Village Clk., until Aug. 15, for drilling a well with a capacity of 40 gal. per minute. Noted July 16.

Quincy, Ill.—Plans are being considered by the Citizens Water-Works Co. for the construction of a c.i. intake pipe for the water system. Estimated cost, $25,000. W. R. Geiston is Supt.

Rock Island, Ill.—Bids will be received by W. Treichler, City Engr., until Aug. 10, for a 6,000,000-gal, centrifugal pump for the water system.

Stoughton, Wis.—Bids will be received by the city, until Aug. 2, for the construction of a reinforced concrete reservoir. L. C. Currier is City Clk.

Estherville, Iowa—(Official)—Bids will be received until 9 a.m., Aug. 11, for constructing additions to the present water works system and to the electric-light plant. The estimated cost of the work is $60,000. The work consists of a distribution pipe-line system, 500,000-gal. steel standpipe a 900-gal, centrifugal fire pump and a steam electric-light plant. J. F. Druar, Commercial Bldg., St. Paul, Minn., is Consult. Engr. N. B. Egbert is City Clk. Noted Apr. 23.

Hinton, Iowa—At a recent election the citizens voted bonds for $6000, the proceeds of which will be used for the construction of a water system.

★Knoxville, Iowa—(Official)—Bids will be received by the city until 8 p.m., Aug. 5, for c.-i. pipe and specials for the extension of the water system. W. E. Rinehart is City Clk. David G. Fisher & Co., Davenport, Iowa, are Engrs.

Lake City, Iowa—Bids will be received by J. M. Fickel, City Clk., until Aug. 3, for laying water mains.

+Winfield, Iowa—The city has awarded the contract for the construction of a water system to the DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa, at about $15,000. Noted June 25.

Alton, Kan.—Bids will be received by the city until Aug. 6 (readvertisement) for the construction of a water system. Rollins & Co., Midland Bldg., Kansas City, Mo., are the Engrs. Noted July 9.

Barnard, Kan.—Plans are being prepared by Henrici, Kent & Lowry, Engrs., Reserve Bank, Bldg., Kansas City, Mo., for the construction of a water system at Barnard.

Cuba, Kan.—The citizens contemplate an expenditure of $20,000 for the installation of a water system.

McCune, Kan.—Henrici, Kent & Lowry, Engrs., Reserve Bank Bldg., Kansas City, Mo., are preparing plans for the installation of a water system at McCune. Noted June 23.

Strong City, Kan.—Bonds for $26,000 have been voted, the proceeds of which will be used for the improvement and extension of the water system.

Palmyra, Neb.—(Official)—Bids will be received by the village until 7 p.m., Aug. 14, for constructing a water system. The Martz Engineering Co., First National Bank Bldg., Lincoln, is Engr. W. E. Vaughan is Village Clk. Noted July 18.

+Humboldt, S. D.—The contract for installing a water system has been awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa, at $9389. Noted June 25.

Ipswich, S. D.—Bids will be received by the City Auditor, until Aug. 3, for c.i. water pipe and hydrants. Easton & Wells, Aberdeen, are Engrs.

Havre, Mont.—The installation of a filtration plant in connection with the water system is under consideration.

Lewistown, Mont.—All bids received June 15 for constructing a gravity pipe line water system have been rejected, as they were above the appropriated amount. The city will do the work with its own forces. Noted May 28.

Birch Tree, Mo.—W. J. Duffield has been granted a franchise to construct and operate a water system and an electric-light plant in Birch Tree.

Clarence, Mo.—Plans are being prepared by Henrici, Kent & Lowry, Reserve Bank Bldg., Kansas City, for the construction of a water system at Clarence.

+Arkansas City, Ark.—(Official)—Bids were received July 21 by Burns & McDonnell, Engrs., Kansas City, for the improvement of the water system at Arkansas City, as follows: ARROW ENGINEERING CO., St. Louis, Mo., $86,816 (awarded contract); T. C. Brooks & Sons, Jackson, Mich., $86,991; Eby Construction Co., Wellington, Kan., $88,601; Katz Construction Co., Omaha, Neb., $88,880; James Staunton, Leavenworth, Kan., $89,500; N. S. Sherman Machine & Iron Works, Oklahoma City, $90,990; Commercial Construction Co., Kansas City, Mo., $91,500; Texas Construction Co., San Antonio, Tex., $91,586; Public Service Construction Co., Omaha, Neb., $93,000; Everett & Burt, Hutchinson, Kan., $93,200. Noted July 9.

Brenham, Tex.—Bonds for $30,000 have been voted, the proceeds of which will be used for the improvement of the water and sewer systems. Noted June 18.

+Dallas, Tex.—The contract for 1000 water meters has been awarded by the city to the NEPTUNE METER CO., 90 West St., New York, N. Y., at $6.50 each. Noted June 11.

New Boston, Tex.—Bids will be received by O. B. Pirkey, Mayor, until Aug. 3, for installing a water system. Nagel & Petersen, Muskogee, Okla., are Engrs.

Sherman, Tex.—The City Council contemplates an expenditure of $40,000 for the improvement of the water system.

Durango, Colo.—The City Council has approved plans for changing the route of the city water-pipe line. Estimated cost, $7462. An additional $10,000 will be spent for new pipe.

Dexter, N. M.—(Official)—Bonds for $12,000 have been sold the proceeds of which will be used for the construction of a water system. Noted June 25.

Fort Sumner, N. M.—The Union Lake, Land & Water Co. will construct water-storage dams and pumping plants near Fort Sumner, at a cost of $1,775,000, for the purpose of irrigating about 80,000 acres of land. M. A. Otero is interested in the project.

Ogden, Utah—The Davis & Webster Counties Canal Co. contemplates an expenditure of $110,000 for increasing the water supply of the East Creek reservoir.

Wickenburg, Ariz.—Plans are being prepared for the construction of two dams near Wickenburg for storing water for irrigation purposes. Pumping plants will also be installed in connection with the project. Elanor C. Whitman, Morristown, N. J., is interested.

Hoquiam, Wash.—The City Council is negotiating with the Council of Aberdeen for the construction of a joint water system to serve both cities.

Kirkland, Wash.—The County Commissioners have granted the city permission to lay a water pipe line along the county road. Estimated cost, $15,000.

Toppenish, Wash.—An expenditure of $30,000 for the extension of the water system is under consideration.

Nehalem, Ore.—Bonds for $12,500 have been voted to purchase the local water system and construct a reservoir.

Anderson, Calif.—The Anderson-Cottonwood Irrigation District has been formed to construct irrigation canals at an estimated cost of $350,000. F. Moore, Anderson, is interested.

El Centro, Calif.—The Holton Power Co. has applied to the State Railroad Commission for permission to issue bonds for $20,000. A water system to cost $24,456 and an ice-storage house to cost $48,940 will be installed at El Centro.

Los Angeles, Calif.—The Canadian Investment Co. has acquired a site in the Deer Creek District on which to construct a pumping plant to irrigate about 160 acres of land.

Madera, Calif.—The City Council will soon hold an election to vote on the proposition to issue bonds for $100,000 for municipal improvements, including the extension of the water and sewer systems.

Fall River Mills, Calif.—The Fall River Valley West Side District contemplates the construction of a pumping plant to cost about $15,000. J. R. Creighton, J. A. Rogers and G. P. Wardell are interested in the project.

Napa, Calif.—The Napa City Water Co. will extend its water mains to Alta Heights.

San Fernando, Calif.—The city contemplates the construction of a municipal water system to cost about $112,819. S. G. Chamberlain is City Engr.

Bedford, Que.—The installation of a water system is under consideration.

Hull, Que.—Bids will soon be received by the City Council for the extension of the water system. Estimated cost $14,330.

Parry Sound, Ont.—The Town Council contemplates an expenditures of $10,000 for the extension of the water system. E. E. Armstrong is Town Clk.

Tilbury, Ont.—The improvement of the water system is contemplated. W. H. Hutton is Town Clk.

Assiniboia, (Winnipeg post office) **Man.**—See item under "Sewers."

★Winnipeg, Man.—(Official)—Bids will be received by S. H. Reynolds, Chn. Comrs. Greater Winnipeg Water District, until noon Sept. 19 for constructing about 85 miles of concrete aqueduct in five sections.

Canora, Sask.—Chipman & Power, Engrs., Winnipeg, have prepared plans and will receive bids until Aug. 18, for constructing a new pump house and steel water tower, installing fire hydrants and c.-i. mains.

Prince Albert, Sask.—Bids will be received by J. B. Brown, City Clk. until 1 p.m., Aug. 15 for two pumps with motors and one Venturi meter for the water system.

+Saskatoon, Sask.—The City Commissioners have awarded contracts for one steam driven centrifugal boiler feed pump and two 4,000,000-gal. motor-driven centrifugal pumps to ESCHER, WYSS & CO., Montreal, Que.

Athabaska, Alta.—Bids will soon be received for the construction of a reservoir and filtration plant. C. L. Huff is Town Engr.

Taber, Alta.—The City Council contemplates the extension of the water system. George C. Millar is Secy.-Treas.

SEWERS

Boston, Mass.—Bids will be received by the Department of Public Works until July 31, for constructing sewers in Rutledge Road, Hyde Park. L. K. Rourke is Comr.

+Boston, Mass.—The contract for constructing sewers in Oakland St., Richmond Road, etc., Dorchester District, has been awarded to CHARLES LATORELLA at $13,085: Other bids were, Antony Cefalo, $13,332; William L. Dolan, $13,453; Louis Balboni, $13,870; George M. Bryne, $13,992; M. De Sisto, $14,244; William J. Barry, $14,323; Martino De Matteo, $14,398; George J. Regan, $14,563; Anthony Baruffaldi, $15,087; John Guarino, $16,131; M. J. McGawley, $17,273. L. K. Rourke is Comr, of Pub. Wks. Noted July 16.

+Fitchburg, Mass.—The contract for constructing lateral connections and about 800 ft. of 72-in. storm sewer has been awarded by the Sewage Disposal Commission to FRANK A. GAMMINE at $37,880. Other bids were: McCarthy & Walsh, Boston, Mass., $38,453; W. J. Donavan, Fitchburg, $40,611; C. E. Trumbull Co., Boston, $42,934; Long & Little, Leominster, Mass., $45,429; D'Onfro Bros., $49,621. David A. Hartwell is Ch. Engr. Noted July 9.

+Bridgeport, Conn.—The contract for constructing sewers in Marion and Wayne Sts. has been awarded by the Paving and Sewer Commissioners to PETROSSI BROS., Hartford, at $9269. Noted July 2.

★Bridgeport, Conn.—(Official)—Bids will be received by the Paving and Sewer Commission until 8 p.m., Aug. 10, for sewer construction. Bernard Keating is Secy. For details see advertisement under "Contracts To Be Let."

+Hartford, Conn.—The Board of Contract and Supply has awarded a contract to C. H. SLOCOMB & CO., Hartford, for constructing the overflow sewer in Granby St. and Westbourne Parkway; also the extension to the Homestead Ave. Intercepting Sewer. Noted July 2 and July 16.

Oneonta, N. Y.—It is reported that bids will be received by the City Clerk, until Aug. 1, for constructing storm and sanitary sewers to cost about $8000. F. M. Gurney is City Engr.

Watertown, N. Y.—The city contemplates the construction of a sanitary sewer to cost $15,000.

New Brunswick, N. J.—Bids will be received by the Common Council until Aug. 3 for constructing a sewer in Carman St. from Nelson to Burnet St. and in Welton St. from Throop to Remsen Ave. John J. Curran is Street Comr.

Newton, N. J.—The Borough Council contemplates the installation of a sewer system, estimated to cost $50,000.

+Plainfield, N. J.—The contract for constructing sanitary sewers has been awarded by the City Council to the KELLEY-McFIRLEY CO., Camden, N. J., at $32,003. Noted June 18 and July 16.

Mt. Pleasant, Penn.—See item under "Streets and Roads."

South Renovo (Renovo post office) **Penn.**—Bids will be received by Ambrose Beck, Clk. of the Council, until Aug. 1, for constructing 1½ miles of sewer.

Wilkes-Barre, Penn.—The city contemplates an expenditure of $24,000 for sewer construction. E. K. Finch is City Engr.

★Washington, D. C.—(Official)—Bids will be received by the District Commissioners until 2 p.m. Aug. 5 for sewer construction. Oliver P. Newman, Frederick L. Siddons and Chester Harding are the Comrs.

Williamson, W. Va.—See item under Streets and Roads.

Walterboro, S. C.—The city has voted $112,000 in bonds for installation of a sewer system.

Paintsville, Ky.—Bids will be received by the Board of Trustees until noon, Aug. 1, for constructing a system of sewers and for paving with brick certain streets. Claude Buckingham is Clk.

Cleveland, Ohio—Bids will be received by the Commissioner of Purchases and Supplies, until noon, Aug. 6, for constructing sewers in various streets. Robert Hoffman is City Engr.

Columbus, Ohio—Bids will be received by Samuel A. Kinnear, Dir. of Pub. Ser. until noon, Aug. 5, for constructing storm water sewers in Olentangy Park, from Olentangy River to High St. Paul B. Kemper is Clk.

Coshocton, Ohio—The City Council has commissioned Chester & Fleming, Engrs., Pittsburgh, to prepare plans for a sewage disposal plant.

Dayton, Ohio—A septic tank for sewage disposal will be installed by Eckhart Bros. in the new suburb of Dayton which they are developing.

+Marion, Ohio—The contract for constructing a sanitary sewer in Greenwood St. has been awarded by the Board of Control to HARRY G. KOHBARGER at $6,763.

New Lexington, Ohio—The City Council contemplates the construction of a sewer system and sewage disposal plant. T. B. Skinner is City Clk.

Indianapolis, Ind.—Bids will be received by the Board of Public Works until 10 a.m., Aug. 3, for constructing a main sewer in Tacoma Ave. B. J. T. Jeup is City Engr.

+Terre Haute, Ind.—The Board of Public Works has awarded a contract for constructing a sewer in North 19th from Third to Maples Ave. to J. I. UNISON, at $10,792 and for a sewer in South Sixth St., from Idaho to Voorhees St., to P. O'LEARY & SONS, at $6329.

+Zeeland, Mich.—The contract for constructing a sewer system and sewage disposal plant has been awarded to ANDREW GEECK, Owosso, Mich., at $16,500. Rumsey & Works, Grand Rapids, Mich., are Engrs. Noted Mar. 12 and May 14.

+Carrollton, Ill.—(Official)—The contract for constructing a sanitary sewer system and a disposal plant has been awarded by the Board of Local Improvements to DRISCOLL & O'BRIEN, Decatur, Ill., at $29,847. Oscar McFarland is Secy. of the Bd. Noted July 16.

+Geneva, Ill.—(Official)—The contract for constructing sanitary sewers has been awarded by the Board of Local Improvements to the EMBANKMENT CO., Joliet, Ill. Other bids were: E. R. Harding Co., Racine, Wis., $65,494; William Davidson, Wilmette, Ill., $67,199; Vito Graziano, Chicago, Ill., $60,299; M. McElligott, Evanston, Ill., $60,578; Schreiter & Pitz, Manitowoc, Wis., $74,361. A. L. Stimple is City Clk. Noted July 9.

+Pontiac, Ill.—The Board of Local Improvements has awarded the contract for constructing the Riverview, Riverside and Driving Park sewer system to GREEN & SON, Ottawa, at $29,809.

+Elkhorn, Wis.—The contract for various sewer construction has been awarded to A. M. LANYON, Waukegan, Ill., at $14,400. Noted July 9.

Fond du Lac, Wis.—Bids will be received by the Board of Public Works, until Aug. 3, for constructing about one mile of sanitary sewers. J. S. McCullough is City Engr.

Milwaukee, Wis.—Bids will be received by Frederick G. Simmons, Comr. Pub. Works, until Aug. 3, for constructing about one mile of sanitary sewers in various streets.

Bids will be received by the Department of Public Works, until July 30, for constructing sewers in various streets. Frederick G. Simmons is Comr.

+West Allis, Wis.—The contract for constructing two tanks and two filter beds as an addition to the East End septic plant has been awarded to the ESAU-KROENING CONSTRUCTION CO., Milwaukee, at $12,595.

Audubon, Iowa—The city will construct about 7½ miles of sanitary sewers and a sewage disposal plant. P. A. Edquist, 856 Omaha National Bank Bldg., Omaha, Neb., is Engr. W. J. Lanbender is City Clk.

Centerville, Iowa—(Official)—Bids will be received by P. A. White, City Clk., until Aug. 8, for constructing sewage filters, dosing chamber, etc. M. G. Hall, Centerville, is Engr.

Chariton, Iowa—(Official)—Bids will be received by G. J. Gittinger, City Clk., until 2 p. m., Aug. 14, for constructing a sewer system. The work calls for about 18½ miles of 8 to 30-in. sewers and four disposal plants. The Iowa Engineering Co., Clinton, Iowa, is Engr.

Dyersville, Iowa—Bids will be received by W. C. Loosbrock, Town Clk., until 8 p.m., Aug. 4, for constructing about 6320 ft, 6, 8 and 10-in. vitrified pipe sewers. M. Tschirgi & Sons, Cedar Rapids, Iowa, are Engrs.

+Mason City, Iowa—The contract for constructing about 7221 ft. of 15-, 20- and 30-in. vitrified pipe sewers has been awarded to S. R. BROWN, Mason City.

+Muscatine, Iowa—The contract for extending the sewer system has been awarded by the City Council to D. E. KEELER, Davenport, Iowa, at $15,707.

+Webster City, Iowa—The contract for constructing storm and sanitary sewers in Elm St. has been awarded to ZITTERELL & SULLIVAN, at $5782. W. W. Crittenden is Clk. Noted July 16.

Brainerd, Minn.—Bids will be received by the City Council until Aug. 3 for constructing sewers, requiring about 4714 ft. of 8 to 18-in. sewer pipe. C. D. Peacock is City Engr.

Rochester, Minn.—Plans are being prepared for constructing 1½ miles of 10- to 15-in. sanitary sewers in various streets. T. O. Sullivan is City Clk.

+St. Paul, Minn.—The City Council has awarded the contract for constructing the Park Ave. and Maryland St. sewer to O'NEIL & PRESTON, at $5240. Noted July 23.

+Stanton, Neb.—The contract for constructing about 8000 lin.ft. of 8- to 18-in. sewers has been awarded to BRIGGS & COREY, Shenandoah, Iowa, at $6243. Noted June 11 and June 18.

Huron, S. D.—The City Commissioners have ordered the construction af lateral sewers in various streets.

+Chouteau, Mont.—The contract for constructing 3.2 miles of sanitary sewers and a sewage disposal plant has been awarded to the F. E. EVANS CONSTRUCTION CO., Great Falls, Mont. Noted June 18.

St. Louis, Mo.—Bids will be received by the Board of Local Improvements until Aug. 5, for the construction of sewers in District No. 1, and until Aug. 7, for constructing the Florissant Ave. sewer. William T. Findly is Secy of the Bd.

+Dallas, Tex.—The contract for constructing a sanitary sewer in East Dallas has been awarded to C. W. OLCOTT, at $17,213. Other bids were: F. M. Long, $19,522; Ennison & McCord, $25,453; Winslett-Eldridge Co., $22,567; Dallas Lime & Gravel Co., $17,507.

★San Antonio, Aex.—(Official)—Bids will be received by Frederick Fries, City Clk., until 4 p.m., Sept. 7, for constructing about 15,000 lin.ft. of 72-in. sanitary sewers.

+San Antonio, Tex.—The following contracts have been awarded for sewer construction; Cherry St., sanitary sewer, to EUGENE CAMPBELL; Waco, at $17,677, to W. G. SCHUWIRTH & CO., Grove Ave. storm sewer at $57,689 also the Cherry St. intercepting sewer and storm sewer at $94,608 and $79,954 respectively.

+Seattle, Wash.—The contract for constructing sewers in East 40th and other streets has been awarded by the Board of Public Works to V. RAMAGLIA, at $12,489. Noted May 28.

South Bend, Wash.—The city contemplates extending the sewer system in the Blake and Riverview Sections. The estimated cost is $21,000.

Astoria, Ore.—The city will construct a sewer system, estimated to cost $100,000.

Portland, Ore.—Plans have been completed for extending the Holgate St. sewer at an estimated cost of $25,000.

Los Angeles, Calif.—The lowest bid received by the Board of Public Works for constructing the Madison-Virgil storm drain was that of John Balch, at $196,998. Homer Hamlin is City Engr. Noted July 9.

Madera, Calif.—The city plans to spend $25,000 for extending the sewer system.

+Vallejo, Calif.—The contract for extending the sewer system has been awarded to MICHAEL MURPHY, at $37,000.

Assiniboia (Winnipeg post office) **Man.**—Frank Ness, Kirkfield Park, Manitoba, is preparing plans for sewers and waterworks to cost about $500,000.

Calgary, Alta.—The City Council has authorized the preparation of plans for extending the sewer system at an estimated cost of $40,000.

GARBAGE

Bellevue, Penn.—Bids will be received until 8 p.m., Aug. 4, by J. M. Simerd, Secy., Town Council, for the collection of garbage and refuse for periods of one year and five years.

Petersburg, Va.—The City Council has appropriated $25,000 for the construction of a garbage crematory.

New Orleans, La.—Bids will be asked soon by the city for a garbage incinerator. J. H. Lafaye is Comr. Pub. Bldgs.

Frankfort, Ky.—The city plans to construct a garbage plant. W. S. Polsgrove is City Engr.

Akron, Ohio—R. Winthrop Pratt, Engr., Hippodrome Bldg., Cleveland, has extended the time for opening the bids for the garbage reduction plant to July 30. The main building will be 115x67 ft. There will be three other buildings, 29x47 ft., 23x16 ft. and 37x24 ft. All buildings will be of reinforced concrete.

Sioux City, Iowa—W. B. Wright, Pres. Wright Incinerator Co., Chicago, Ill., has offered to construct a garbage plant to cost $100,000 without cost to the city if the city will grant him a franchise to operate the plant for a period of 20 years.

STREETS AND ROADS

Concord, N. H.—Bids will be received by S. Percy Hooker, Supt. of Highways, until Aug. 3, for improving Derry Road, in Chester Township, and Concord Road, in London Township.

Boston, Mass.—Bids will be received until Aug. 4 by the State Highway Commission for the construction of 9400 lin.ft. of road at Shelburne, 2400 lin.ft. in Northbridge, 6900 lin.ft. in Dedham and 7300 lin.ft. in Buckland. Arthur W. Dean, 15 Ashburton Pl., is Chief Engr.

Cambridge, Mass.—See item under Bridges.

Hartford, Conn.—See item under Water Suply—Irrigation.

✚Hartford, Conn.—Contracts for state road work have been awarded by the State Highway Commission as follows:

Norwalk City, about 5840 lin.ft. hassam pavement on Winfield St. and 1675 lin.ft. on East St., to the CONNECTICUT HASSAM PAVING CO., New Haven, at approximately $22,000.

Westport Township, a section of hassam pavement on the Old Highway, to the CONNECTICUT HASSAM PAVING CO., New Haven, at $8000.

Bridgeport City, a section of asphalt pavement on Brooklawn Ave., to the WARREN BROS. CO., Boston, Mass., at $3758.

Fairfield Township, a section of asphalt pavement on Brooklawn Ave., to the WARREN BROS. CO., Boston, Mass., at $5226.

✚Meriden, Conn.—(Official)—The contract for paving several streets has been awarded to L. SUZIO at $207,000. Noted June 11.

Albany, N. Y.—Bids were received by the State Highway Commission, July 27, for the construction of public highways by state aid, as follows:

Road No. 5501, East Berne-New Salem, Part 1, Albany County, 2.86 miles: Richard Hopkins, Troy, $33,811; Lane Construction Corporation, Meriden, Conn., $34,816; Joseph Walker Construction Co., Albany, $34,995; St. Lawrence Construction Co., Albany, $32,234; Joseph P. Scanlon, Delmar, $33,613.

Road No. 1204, Plattsburg City, Broad St., Clinton County, 0.80 mile: Bluff Point Stone Co., Plattsburg, $10,024; Boynton & McNally, Keeseville, $10,212; Gifford Construction Co., Jamaica, $10,514; Dana W. Robbins, New York, $9984; James Conway, Plattsburg, $10,565.

Road No. 1035-A, Holland-Glenwood, Part 1, Erie County, 3.13 miles: Serviss & Mackey, Youngstown, $53,516; Ribstine-Holter Co., Rochester, $53,707.

Road No. 5500, Jay-Lake Placid, Part 2, Essex County, 7.15 miles: W. F. Boughton Co., Hudson Falls, $80,782; Richard Hopkins, Troy, $84,757; St. Lawrence Construction Co., Albany, $81,122; J. L. Richmond, Little Falls, $84,321; Beede Bros., Keene Valley, $85,490; Gruner & Hallenbeck, Harriman, $81,671; Rumpf & Stevens, Lake Placid, $85,663, and two others.

Road No. 468, Little Falls-Fairfield, Herkimer County, 5.55 miles: H. Ward Dickison, Syracuse, N. Y., $52,519.

Road No. 5435, Pittsford Village, Monroe and South Main St., Monroe County, 0.92 mile: James F. Leary, Rochester, $27,842; Ribstine-Holter Co., Rochester, $27,316; Morrison & Quinn, Rochester, $27,859; Schroeder-Hicks Contracting Co., Rochester, $27,355; J. B. Hurley, Inc., Fredonia, $26,524; Whitmore-Rauber-Vicinius, Rochester, $27,585, and ten others.

Road No. 5505(Wheatley-East Norwich, Part 1, Nassau County, 2.93 miles: Federal Asphalt Corporation, New York, $47,601; Municipal Asphalt Co., New York, $46,285; Murray & Gardner, Inc., Center Moriches, $48,233; McDonald Contracting Co., New York, $46,861; Price & Tripp, Inc., White Plains, $48,091; H. J. Mullen Contracting Co., Jamaica, $45,614; Samuel Beskin, Beacon, $46,580, and three others.

Road No. 1136, Pulaski Village, Mill St., Oswego County, 0.90 miles: A. J. Rockwood, Rochester, $12,348; Ripton & Murphy, Rochester, $13,034.

Road No. 5504, Dykes Crossing. Rockland County, 0.39 miles: Paul G. Sanger, Mumsey, $7618.

Road No. 5496, Scotia Village, Ballston Ave., Schenectady County, 0.90 mile: W. L. Lawton, Glens Falls, $43,367; Schenectady Contracting Co., Schenectady, $39,608; C. B. Dean, Albany, $41,621; Brooks & Julian, Rochester, $41,251; John Johnson Construction Co., Buffalo, $43,450; Ballard & Maher, Oneida, $41,578; William G. Fox, Saratoga Springs, $43,664.

Road No. 1206, Sag Harbor Village, Suffolk County, 1.56 miles: A. N. Garthwaite, Yonkers, $23,616; E. H. Brown, Hempstead, $22,690; H. J. Mullen Contracting Co., Jamaica, $22,628; Murray-Gardner, Inc., Center Moriches, $24,811; N. W. McVeigh, Long Island City, $25,346; Samuel Beskin, Beacon, $23,840; McDonald Contracting Co., New York, $22,705, and three others.

Road No. 1208, East Islip-Smithtown Branch, Suffolk County, 9.57 miles: H. J. Mullen Contracting Co., Jamaica, $115,929; Thomas F. Shaughnessy, Albany, $115,898; William F. McCabe Construction Co., White Plains, $11,7488; E. H. Brown, Hempstead, L. I., $111,200; Parker-Hassam Paving Co., Worcester, Mass., $117,198; A. C. Sternberg Jr. Construction Co., West Hartford, Conn., $115,076; Eastern Asphalt Paving Co., New York, $108,943, and six others.

Road No. 1207, Croton-on-Hudson, Riverside Ave., Westchester County, 1.28 miles: E. T. Eggleston Yonkers, $36,119; Price & Tripp, Inc., White Plains, $36,272; William F. McCabe Contracting Co., White Plains, $35,927; John J. Hart, Peekskill, $34,395; Samuel Beskin, Beacon, $36,187; Joseph Johnson & Sons, West New Brighton, S. I., $35,205; McDonald Contracting Co., New York, $36,854, and four others.

Road No. 1205. Dresden-Pen Yan, Yates County, 5.18 miles: J. W. Brennan Contracting Co., Geneva, $51,682; Ribstine-Holter Co., Rochester, $54,055; I. M. Ludington Sons Co., Rochester, $53,327; Frank V. Brotsch, Rochester, $51,599; Brooks & Julian, Rochester, $53,969; Richard Hopkins, Troy, $54,818; Atlanta Construction Co., Atlanta, $50,201, and two others.

The following bids were received by the State Commission of Highways, July 27, for the repair of public highways by state aid:

Repair Contract No. 677, Montgomery County: J. J. Malloy, Schnectady, $1341; Harry W. Roberts, Utica, $1249; Lane Construction Corporation, Meriden, Conn., $1369; Richard Hopkins, Troy, $1372; John P. Dugan & Co., Amsterdam, $1094; R. D. Cooper, Little Falls, $1276.

Repair Contract No. 678, Montgomery County: R. D. Cooper, Little Falls, $414; E. H. Brown, Hempstead, $4752, Lane Construction Corporation, Meriden, Conn., $4791; Harry W. Roberts & Co., Utica, $4270; Champlain Construction Co., Saratoga Springs, $3995; Richard Hopkins, Troy, $4706; John P. Dugan & Co., Amsterdam, $3937.

Repair Contract No. 679, Montgomery County: R. D. Cooper, Little Falls, $2531; John P. Dugan & Co., Amsterdam, $2163; Richard Hopkins, Troy, $2757; J. J. Malloy, Schenectady, $2445; Lane Construction Corporation, Meriden, Conn., $2405; Harry W. Roberts & Co., Utica, $2489.

Repair Contract No. 680, Montgomery and Fulton Counties: R. D. Cooper, Little Falls, $6374; John P. Dugan & Co., Amsterdam, $5822; J. J. Malloy, Schenectady, $6599; Champlain Construction Co., Saratoga, $5349; Harry W. Roberts & Co., Utica, $6187; Flood & Van Wirt Co., Hudson Falls, $6361; Lane Construction Corporation, Meriden, Conn., $6656.

Repair Contract No. 676, Oneida County: Phelan & Sullivan, Utica, $10,463; E. H. Brown, Hempstead, L. I., $10,996; H. Ward Dickison, Syracuse, $10,987; Ballard & Maher, Oneida, $10,441; William F. Cogley, Utica, $10,545; Nash & Griffin, Norwich, $10,415; C. D. Dean, Albany, $10,422, and three others. Noted July 16.

Newburgh, N. Y.—Bids will be received by D. J. Coutant, City Clk., until 5 p.m., Aug. 4, for improving William St. from Broadway to Renwick St. W. J. Blake, Jr., is City Engr.

✚North Tonawanda, N. Y.—The contract for paving Oliver St. has been awarded to the CONSTANTINE CONSTRUCTION CO., Buffalo, at $31,839.

Schenectady, N. Y.—Bids will be received by the Board of Contract and Supply, until Aug. 5, for paving a number of streets.

Plainfield, N. J.—The city will issue $16,000 in bonds for paving several streets with macadam.

✚Westfield, N. J.—The Town Council has awarded the contract for improving Lenox Ave. to CHARLES LENTZ.

Crafton, Penn.—(Official)—Bids will be received by F. J. Huffman until 8 p.m., Aug. 4, for grading, curbing and paving Elmwood St.

✚Glassport, Penn.—The contract for paving Ohio Ave. from Seventh to Ninth has been awarded to BOWMAN BROS. CO., McKeesport, at $11,009.

Greensburg, Penn.—(Official)—Bids will be received by the Borough Council until 8 p.m., Aug. 3, for grading, curbing and paving the following streets: Liberty St., St. Clair Ave., Truby St. J. F. Beatty is Secy. of the Council.

✚Harrisburg, Penn.—(Official)—Bids were received July 21, by the State Department of Highways, as follows: (a) amiesite, (b) asphalt bituminous macadam, penetration method, (c) warrenite, (d) filbertine, (e) unionite:

Bucks County, Bristol Township, 5524 ft. (alternate bids)—Frank McInerney, Easton, (a) $17,752; George C. Souder, Lancaster, (b) $17,504, (a) $20,311; Manwaring & Cummins, Philadelphia, (b) $16,650, (a) $17,553; W. C. Evans, Ambler, (b) $19,361, (a) $21,366, (c) $24,876; Edward L. Bader, Philadelphia, (a) $20,797; Charles T. Eastburn Co., Yardley, (b) $19,350, (a) $18,848, (c) $22,859; B. F. Richardson, Philadelphia, (e) $23,098; Union Paving Co., Philadelphia, (d) $18,047; J. F. SHANLEY CO., Philadelphia, (b) $15,623, (a) $16525 (awarded contract).

Bucks County, West Rockhill Township and Telford Borough, 12,065 ft. (alternate bids)—Neff, Horn & Co., Slatington, (b) $35,386, (a) $45,038, (c) $46,111; Edward L. Bader, Philadelphia, (a) $40,881; William C. Evans, Ambler, (b) $33,758, (a) $39,121, (c) $47,057; Charles T. Eastburn Co., Yardley, (b) $40,445, (a) $39,158, (c) $47,953; B. F. Richardson, Philadelphia, (e) $46,919; Union Paving Co., Philadelphia, (d) $35,617; FRANK McINERNEY, Easton, (a) $34,808 (awarded contract).

Venango County, Jackson Township, 2796 ft. brick block paving: G. W. Ensign, Inc., Harrisburg, $13,723; Simpson & Metz, Erie, $12,365; NORTHWESTERN CONSTRUCTION CO., Franklin, $12,991 (awarded contract).

Tioga County, Blossburg Borough, 10,907 ft. brick block paving: William C. Evans, Ambler, $70,476; McNerney Construction Co., Canton, $64,172; Empire Contractors' Material & Equipment Co., Newark, N. J., $60,314; Monroe Paving Co., Langhorne, $74,360; Hassam Paving Co., Worcester, Mass., $67,927; B. H. Coryell, Williamsport, $68,988; N. Horn & Co., Slatington, $74,533; South Shore Construction Co., Erie, $68,327; Simpson-Mitchell-Crosby Co., Punxsutawney, $63,754. Contract not awarded.

Greene County, Franklin Township, 15,063 ft. brick block paving: John Dandrea & Co., Patton, $60,828; John W. Hallam, Washington, $67,222; Bell-Bockel Co., Inc., Altoona, $62,596; Frederick Robinson, Waynesburg, $64,088; W. F. Blair & Son, Waynesburg, $64,896. Contract not awarded.

Elk County, Ridgway Borough, 6111 ft. brick block paving: B. H. Coryell, Williamsport, $27,821; Charles T. Eastburn Co., Yardley, $30,066; Barrally & Ingersoll, Rochester, $29,517; John Dandrea & Co., Patton, $29,635; Simpson & Metz, Erie, $28,595; J. B. Hurley, Inc., Fredonia, N. Y., $27,902. Contract not awarded.

Westmoreland County, Allegheny Township, 15,450 ft. water-bound macadam: M. Bennett & Sons, Indiana, $54,396; BELL-BOCKEL CO., INC., Altoona, $52,544 (awarded contract); William C. Evans, Ambler, $56,475; Samuel Gamble Co., Carnegie, $60,274; R. H. Cunningham & Sons, Turtle Creek, $57,085; John L. Elder, Ebensburg, $65,130; Neelen & Daly, Pittsburgh, $66,068; Duquesne Contracting Co., Pittsburgh, $61,116.

Somerset County, Summit Township, 5256 ft. asphaltic bituminous macadam (penetration method): Somerset Contracting Co., Somerset, $24,479; Hoblitzell & Price, Meyersdale, $20,774; WILLIAM C. EVANS, Ambler, $19,507 (awarded contract); J. C. McSpadden, Rockwood, $24,199.

Somerset County, Milford Township, 5000 ft. (alternate bids) (a) water-bound macadam, (b) asphaltic bituminous macadam, penetration method: Somerset Contracting Co., Inc., Somerset, (a) $15,362, (b) $19,273; Hoblitzell & Price, Meyersdale, (a) $19,948, (b) $21,085; William C. Evans, Ambler (a) $16,411, (b) $17,976; J. C. McSpadden, Rockwood, (a) $18,644, (b) $20,066. Contract not awarded. Noted July 2.

Midland, Penn.—Bids will be received by M. C. Donohoe, Secy. of Council, until 8 p.m., Aug. 3, for improving Beaver, Penn and Ohio Aves. R. R. Owens is Borough Engr.

Mt. Pleasant, Penn.—Bids will be received by J. E. Criswell, Borough Secy., until 8 p.m., Aug. 3, for constructing a sewer and grading, curbing and paving Depot St. with vitrified brick.

+Washington, Penn.—(Official)—The Commissioners of Washington County have awarded the following contracts for resurfacing roads: To the COLLINS-GORDON CONTRACTING CO., Pittsburgh, Penn., for two miles of the Dry Run Road with brick, concrete curb, at approximately $28,225; to the same company, for 4800 ft. of the Taylorstown Road with Kentucky rock asphalt, at $5982; to WILLIAM PICKETT & CO., Washington, Penn., for one mile of the McClanes-Bridge-Meadowlands Road with concrete, at $9471.

Cumberland, Md.—Bids will be received by the Allegany County Commissioners, until Aug. 5, for the construction of one mile of road from Ocean-Midland Section of the Legislative Road; also two miles of the Pekin-Barton Section of the same road; also from Barton-Phoenix Section, two miles, to be of concrete or macadam construction. J. T. Edwards is Pres.

+Easton, Md.—A contract for constructing 20,000 sq.yd. of streets with concrete has beeen awarded to the McGUIRE CONSTRUCTION CO., Norfolk, Va., at $1.39 per sq.yd. Noted June 25.

★Williamson, W. Va.—(Official)—Bids will be received by the city until 8 p.m., Aug. 10, for about 50,000 sq.yd. of brick, bituminous macadam and concrete paving; also for about 51,000 lin.ft. of curbing and 5000 lin.ft. of sewers.

Arcadia, Fla.—(Official)—Bids will be received by A. L. Durrance, Clk. of Circuit Court, until 2 p.m., Sept. 8, for the sale of $350,000 of bonds for improving roads and bridges in District No. 5. Noted under Bridges July 9.

Miami, Fla.—Bids will be received by the City Council until Aug. 6 for 95,000 sq.yd. of paving.

Tampa, Fla.—Bids will be received by the County Commissioners until Aug. 6 for improving the following roads: Tampa-Plant City, Harney-Thonotassa, Riverview and Port Tampa Roads. James Riddle is Engr. of Roads.

+The contract for paving Buffalo and Florida Aves. has been awarded to the EDWARDS CONSTRUCTION CO., at $35,955.

Eutaw, Ala.—Bids will be received by the County Commissioners of Green County, Court House, until 11 a.m., Aug. 17, for improving a part of Eutaw and Clinton Road. Estimated cost is $7000.

+Haynesville, Ala.—The contract for graveling the Haynesville-Mt. Willning Road has been awarded to the NIXON CONSTRUCTION CO., at $6542. Noted July 2.

Nicholasville, Ky.—(Official)—Bids will be received by the Board of Councilmen until 3 p.m., Aug. 1, for improving Main St. from Depot to South Cross St.

Paintsville, Ky.—See item under "Sewers."

Cincinnati, Ohio—(Official)—Bids will be received by the County Commissioners until noon, Aug. 14, for grading Mill Road. Albert Reinhardt is Clk. of Comrs.

+Cincinnati, Ohio—The contract for improving the New Richmond Pike has been awarded to the VAN CAMP BROS., at $26,168. Noted June 25.

Cleveland, Ohio—Bids will be received by E. G. Krause, Clk. of the Bd. of Commissioners, until Aug. 15, for the improvement of the Solon and Richmond Road.

Columbus, Ohio—(Official)—Bids will be received by the State Highway Commission until 2 p.m., Aug. 4, for constructing 89 roads at an approximate cost of $2,500,000, and for repairing eight roads at an estimated cost of $185,000.

Defiance, Ohio—Bids will be received by Clayton M. Rath, Dir. of Pub. Ser., until Aug. 14, for improving East Second St. and Ottawa Ave.

Lima, Ohio—Bids will be received by H. J. Lawlor, Clk. of the Bd. of Comrs., until Aug. 14, for the construction of 16,000 sq.yd, of concrete roadway near Spencerville.

Lorain, Ohio—Bids will be received by F. L. Ellenberger, Clk. of the Bd. of Comrs., until Aug. 5, for repairing the Town Line and Cotton Road.

New Lexington, Ohio—(Official)—Bids will be received by T. B. Skinner until noon, Aug. 17, for the improvement of Orchard St.

+New Philadelphia, Ohio—The contract for paving East, Fair, Ray and North Seventh Sts. has been awarded to SPRINGER & ROGERS at $79,738.

Olmsted Falls, Ohio—Bids will be received by the Board of Trustees until Aug. 3 for improving highways. The estimated cost of the work is $8325. F. R. Gallagher is Township Clk.

+Perrysburg, Ohio—(Official)—The contract for paving Louisiana Ave. has been awarded to MARSMAN & GREEN, Grand Rapids, Mich., at $18,909. The only other bidder was Joy & Mulligan, at $19,265. Noted July 2.

+Portsmouth, Ohio—The city has awarded the contract to SAMUEL MONROE & SON for paving the following streets: Gallia Pike, $68,386; Lincoln St., $5573; Broadway, $6367, and New Fifth St., $2677. Noted June 18.

+Tiffin, Ohio—The contract for macadamizing one mile of the Tiffin-New Riegel Road has been awarded to G. G. SMITH, Bascom, Ohio, at $5550.

Toledo, Ohio—Bids will be received by C. J. Sanzenbacher, Audr. of Lucas County, until 10.30 a.m., Aug. 4, for improving a number of roads.

Uhrichsville, Ohio—Bids will be received by H. O. Snyder, Village Clk., until noon, Aug. 1, for grading, draining and paving a number of streets.

★Van Wert, Ohio—Bids will be received by W. S. Backus, Dir. of Pub. Ser., until noon, Aug. 3, for constructing 6597 sq.yd. of brick street, and one-half mile of water-bound macadam street.

Indiana—(Official)—Bids will be received as follows for road improvements in Indiana:

New Albany, until 10 a.m., Aug. 7, by Commissioners of Floyd County, for constructing roads in Wright and Smith Townships. Julian T. Miller is Audr.

Valparaiso, until 2 p.m., Aug. 8, by the Commissioners of Porter County, for constructing roads in Portage and Center Townships. C. A. Blachly is Audr.

Brazil, until 10.30 a.m., Aug. 8, by Commissioners of Clay County, for constructing a stone and gravel road in Van Buren Township. E. A. Staggs is Audr.

Greencastle, until 2 p.m., Aug. 12, by Commissioners of Putnam County, for constructing three macadam roads in Greencastle Township. C. L. Airhart is Audr.

New Albany, until 10 a.m., Aug. 14, by Commissioners of Floyd County, for constructing a road in Greenville Township. Julian T. Miller is Audr.

Warsaw, until 10 a.m., Aug. 31, by Commissioners of Kosciusko and Fulton Counties, for constructing a county line gravel road. V. D. Mock is Audr. of Kosciusko County. W. C. Williams is Audr. of Fulton County.

Bloomfield, Ind.—(Official)—Bids will be received by John W. Johnson, Treas. of Greene County, until 2 p.m., Aug. 3, for the sale of $12,400 and $11,000 of highway bonds.

English, Ind.—(Official)—Bids will be received by A. H. Flanigan, Treas. of Crawford County, for the sale of $7500 of bonds for highway improvement.

Indianapolis, Ind.—(Official)—Bids will be received by the Board of Public Works until 10 a.m., Aug. 5, for improving the following streets: Comar Ave. from Shelby St. to Boyd Ave., Irving Pl. from Fletcher Ave. to Lexington Ave., Fulton St. from Ohio St. to Michigan St., and Martindale Ave. from Roosevelt Ave. to 16th St.

+La Porte, Ind.—A contract for constructing a macadam road has been awarded to LOUIS MARTIN at $7094.

Monticello, Ind.—(Official)—Bids will be received by O. C. Middlestadt, Treas. of White County, until 10 a.m., Aug. 1, for the sale of $6000. $12,000, $5000 and $8000 of highway bonds.

+Terre Haute, Ind.—The contract for constructing a reinforced concrete pavement on 25th St., from Wabash Ave. to Elm St., has been awarded to EWING SHIELDS, at $10,930.

+Edwardsville, Ill.—Bids will be received by the City Council until 2.30 p.m., Aug. 5, for paving a number of streets with asphalt.

+Elgin, Ill.—Contracts for constructing 7846 sq.yd. of asphaltic concrete pavement on Hill Ave. and 6436 sq.yd. of asphaltic concrete pavement on Addison St. have been awarded to the WESTERN CONSTRUCTION CO., Racine, Wis., at $26,874. Noted July 9.

+Kankakee, Ill.—The contract for paving Washington Ave. from Court St. to the river has been awarded to the ILLINOIS HYDRAULIC STONE & CONSTRUCTION CO., at $15,377.

+Pontiac, Ill.—The contract for paving South Locust St. has been awarded to LOGG & SON, at $17,150.

Springfield, Ill.—(Official)—Bids will be received until 11 a.m., Aug. 4, by the Illinois Highway Commission for the following concrete road construction, all cement to be furnished by the State: Carroll County, Route 2, Sect. A, about 7200 lin.ft., estimated cost, $11,162; Moultrie County, Route 5, Sect. A, about 6300 lin.ft., estimated cost, $8437; Macoupin County, Route 1, Sect. A, about 11,200 lin.ft., cost $16,908; DuPage County, Route 1, Sect. A, about 10,800 lin.ft., cost $20,995. P. C. McArdle is Acting Ch. Engr.

(Official)—Bids will be receiver until 11 a.m., Aug. 11, by the State Highway Commission for the following road work: Lawrence County, Route 5, Sect. A, 4680 lin.ft. of concrete construction, estimated cost $10,139; Clark County, Route 1, Sect. A, 4500 lin.ft. of concrete construction, estimated cost $6772; Franklin County, Route 1A-1, Sect. A, 4378 lin.ft. of concrete construction, estimated cost $6611; Monroe County, Route 1, Sect. A, 1900 lin.ft. of concrete construction, estimated cost $2978; Schuyler County, Route 5, Sect. A, 5400 lin.ft. of concrete construction, estimated cost $6766; Jefferson County, Route 3, Sect. A, 3500 lin.ft. of concrete construction, estimated cost $6357.

+Clintonville, Wis.—The contract for paving New London St. has been awarded to the C. PETERSON CONSTRUCTION CO., at $18,069. Other bids were: Schuette Cement Construction Co., $20,905, and Larson Construction Co., $21,531. Noted July 9.

Eau Claire, Wis.—Bids will be received until 2 p.m., Aug. 5, for laying about 3700 sq.yd. of brick pavement on concrete base on Grand Ave. East. J. C. Finnessey is City Clk. A. R. Carnock is City Engr.

+Hurley, Wis.—The contract for paving Silver St. with vitrified brick has been awarded to FRED EUL, Menasha, at $32,197.

Monroe, Wis.—Bids will be received by the Committee on Streets and Sidewalks until noon, Aug. 13, for improving East George St. W. Dunnwiddie is City Clk.

Montello, Wis.—Bids will be received until Aug. 3 for street improvements. A. J. Barry is Village Clk.

+Platteville, Wis.—The contract for paving Main St. has been awarded to T. E. WOOLLEY, La Crosse. Noted July 16.

Reedsburg, Wis.—Bids will be received by the City Clerk until Aug. 14 for constructing brick pavement on Pine and Second Sts. and two sections of North Ave.

Corydon, Iowa—(Official)—Bids will be received by A. T. Gallager, City Clk., until Aug. 10, for 31,00 sq.yd. of brick, asphaltic concrete or concrete pavement. M. G. Hall, Centerville, is Engr.-in-Charge.

Marshalltown, Iowa—Bids will be received by J. J. Wilson, City Clk., until 9 a.m., Aug. 3, for concrete sidewalks.

+Duluth, Minn.—The contract for improving Victoria St. has been awarded to A. N. NELSON, at $9337. Other bids were: J. A. Johnson, $11,327; Olson & Johnson, $11,488, and Rogers & McLean, $11,579.

+Virginia, Minn.—The contract for paving First and Fourth Sts. and Mesaba Ave. has been awarded to LAWRENCE McCANN, at $51,757.

+Dodge City, Kan.—The contract for paving the business section has been awarded to A. R. YOUNG, Lawrence, at $49,940.

Seward, Neb.—(Official)—Bids will be received until 8 a.m., Aug. 6, for 30,000 yds. of brick, asphalt or concrete pavement. The Martz Engineering Co., 416 First National Bank Bldg., Lincoln, Neb., is Engr.-in-Charge. C. L. Wasserman is City Clk. Noted July 16.

Minot, N. D.—Bids will be received by the Board of City Commissioners until 8 p.m., Aug. 3, for improving parts of Second St. Northwest, Third St. Northwest and Third Ave. Northwest. A. D. Hagenstein is City Audr.

Havre, Mont.—Bids will be received by City Clerk until Aug. 3 for constructing Improvement Districts Nos. 70, 71 and 72.

Jefferson City, Mo.—Bids will be received by the City Clerk until Aug. 3 for the construction of McCarty St. from Clark Ave. to Benton St. and from Locust to Clark. Phil C. Harding is City Engr.

+St. Joseph, Mo.—The contract for paving 26th St. from Messanie to Mary St. has been awarded to the YOUNG CONSTRUCTION CO.

St. Louis, Mo.—Bids will be received by the Board of Public Improvements until Aug. 7 for improving Oakland Ave. from Clayton to Skinner, at an estimated cost of $30,059, and for paving the 12th St. viaduct from Spruce to Chouteau, at an estimated cost of $27,400.

+Sikeston, Mo.—The contract for constructing about 3400 sq.yd. of concrete pavement and 1448 cu.yd. of excavation has been awarded to J. R. McKINNEY. Noted July 9.

Sheridan, Wyo.—(Official)—Bids will be received by M. W. Foy, City Clk., until 10 a.m., Aug. 3, for the sale of $267,700 bonds for street improvements in District No. 3.

+Cameron, Tex.—(Official)—The contract for constructing a system of improved highways in Road District No. 2, Milam County, has been awarded to HOWARD & TAYLOR, Belton, at $71,605. The only other bidder was B. L. Waggaman & Co., at $81,346. Noted June 25.

Dallas, Tex.—Bids will be received by the City Commission until Aug. 3 for paving the following streets: Jackson from Pearl to Preston, Bryan from St. Joseph to Munger Blvd., Broom from Lamar to Laws, Race from Elm to Main, Washington from San Jacinto to Ross, Carroll from Swiss to Reiger, Hall from Ross to Swiss and from Knight to Douglas, Hawkins from Commerce to Bryan, Lamar from Pacific to McKinney, and Crowdus from Elm to Commerce.

Houston, Tex.—(Official)—Bids will be received until 2 p.m., Aug. 3, for paving Webster Ave. from Main to Sherman St., at an estimated cost of $30,000, and Avondale Ave. from Baldwin to Hopkins St., at an estimated cost of $30,000. E. E. Sands is City Engr.

Moscow, Idaho—The City Engineer is preparing plans for paving 10 blocks.

+Twin Falls, Idaho—The SLICK BROTHERS CONSTRUCTION CO., Boise, received the contract for grading 44 miles of road in Twin Falls County, at $13,203.

+Anacortes, Wash.—The contract for improving 10th St. has been awarded to HERWIG & HAUG, at $20,454.

+Burlington, Wash.—The contract for paving parts of Anacortes and Orange Sts. has been awarded to the WASHINGTON PAVING CO.

+Hoquiam, Wash.—The contract for constructing permanent pavement on Aberdeen St. has been awarded to PUGH & ARENZ, at $15,881.

+Ashland, Ore.—The contract for constructing five miles of Pacific Highway has been awarded to CLARK HENERY CONSTRUCTION CO., Sacramento, at approximately $50,000.

+Los Angeles, Calif.—Contracts have been awarded for improving Park Terrace to WALTER OVERELL, at $8454; Monclair St. and Westmoreland Ave. to the FAIRCHILD-GILMORE-WILTON CO., at $7616 and $9175, respectively.

+Los Angeles, Calif.—B. F. FORD and F. H. STOUT have been awarded the contract at $12,078 for improving Santa Barbara Ave., between Vermont and Budlong.

+San Diego, Calif.—The contract for paving Utah St. between Balboa Park and University Ave has beeen awarded to the C. L. HYDE CONSTRUCTION CO., at $19,800.

Hull, Que.—According to press reports, bids will soon be received for constructing concrete sidewalks.

Quebec, Que.—W. D. Baillarge, 50 St. Louis St., is preparing plans for the construction of a promenade at an estimated cost of $85,000.

Weston, Ont.—Bids will be received until 8 p.m., Aug. 4, for improving Main St. J. H. Taylor is City Clk.

+Welland, Ont.—The contract for paving 6200 sq.yd. with creosoted wood block has been awarded to the CANADA CREOSOTING CO., 1 King East, Toronto, at $22,442.

+Fort Garry, Man.—The contract for paving the Pembina Highway with concrete has been awarded to R. MARCOUX, at $12,500.

+Revelstoke, B. C.—The contract for laying 25,000 sq.yd. of bitulithic pavement has been awarded to the WARREN CONSTRUCTION CO.

INDUSTRIAL WORKS

+Everett, Mass.—The TURNER CONSTRUCTION CO., New York, N. Y., has been awarded the contract for the construction of a plant for the Bowker Insecticide Co., of this city. A three-story, 92x76-ft., reinforced concrete warehouse will be built. A. H. Nickerson is the Engr.

Salem, Mass.—The Naumkeag Steam Cotton Co. will rebuild its plant, recently destroyed by fire. The estimated cost is $3,500,000. Lockwood, Greene & Co., 93 Federal St., Boston, are the Archs.

West Groton, Mass.—The Groton Leather Board Co., whose plant was recently destroyed by fire, will rebuild. The estimated cost is $20,000. George H. Bixby is Mgr.

Bridgeport, Conn.—Albin E. Henkels has asked for estimates for the construction of a reinforced concrete factory, 80x200 ft. and three stories high. Samuel M. Greene Co., 318 Spring St., Springfield, Mass., is the Arch.

+New Britain, Conn.—The Rogers Sash & Door Co. has awarded contracts for an office and storehouse building on Chestnut St. to JOHN W. ALLEN & SON, 331 Chestnut St., and GEORGE S. CHATFELD CO., 73 Canal St., Waterbury. It will be three stories, 115x60 ft., and of brick construction. Unklebach & Perry, 162 Main St., New Britain, are the Archs.

Thomaston, Conn.—The Seth Thomas Clock Co. plans to construct additions to its plant which will cost about $100,000.

+Buffalo, N. Y.—The Balston Purina Co., St. Louis, has awarded the TURNER CONSTRUCTION CO., Buffalo, a contract to erect a concrete grain elevator and mill on Prenatt St. The work will cost $100,000.

Ilion, N. Y.—The Remington Arms Co. will erect a four-story, 40x128-ft. addition to its plant. Estimated cost, $60,000. W. E. Noaidle is Mgr.

Madrid, N. Y.—Bids will be received by the Madrid Bottling Co. for a two-story and basement bottling house. C. O. Sleegle is Gen. Mgr. G. Wilson, Ogdensburg, N. Y., is preparing plans.

New York, N. Y.—Plans have been filed for the erection of a twelve-story fireproof factory at 233 West 36th St., for the Holland Holding Co. The cost will be $200,000. Judson S. Todd, is Pres. Frederick C. Zobel is the Arch.

+New York, N. Y.—(Borough of Queens)—The Ford Motor Car Co., Detroit, Mich., has let a contract to FOUNTAIN & CHOATE, of 110 E. 23d St., New York, N. Y., for constructing an eight-story, 209x325-ft. factory at Long Island City, N. Y. The cost of the structure will be $800,000. John Graham, Detroit, Mich., is the Arch.

+Niagara, N. Y.—The contract for building a three-story and basement addition to the plant of the International Acheson Graphite Co. has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway, New York. The estimated cost is $35,000.

Rochester, N. Y.—Foote, Hadley & Carpenter, Archs., have prepared plans for a factory to be constructed on West Ave. for the Ritter Dental Mfg. Co., 610 West Ave. Estimated cost, $26,000.

+Syracuse, N. Y.—The E. R. Caldwell & Son Brass Co. has awarded a contract to D. W. NICHOLSON for constructing a foundry and machine shop on West Fayette St. The estimated cost is $16,500.

Jersey City, N. J.—C. Heidt & Son, Inc., will build a two-story brick cooperage plant on Fairmount Ave., to cost about $40,000.

Newark, N. J.—The Celluloid Co., manufacturer of celluloid specialties, will build a two-story, 52x132-ft. addition to its plant on Ashbridge Ave., to cost about $15,000.

+Newark, N. J.—The AMERICAN CONCRETE STEEL CO. has been awarded the contract for the erection of a new four-story, reinforced-concrete warehouse for Wilkinson, Gaddis & Co., on Parkhurst Ave. The building will cost about $100,000.

Lebanon, Penn.—It is announced that the Valley Mold and Iron Co., of Sharpsville, will erect a big ingot mold plant here to supply the Eastern market. Plans for the new foundry are being prepared and it is said that an expenditure of $500,000 will be made.

+Philadelphia, Penn.—JAMES G. DOAK & CO., Crozier Bldg., have been awarded the contract for a three-story, 75x215 ft., brick and stone factory Bldb., for the Cameron Co., at N. St. and Glenwood Ave. Estimated cost, $65,000. Stearns & Caster, are the Archs.

+WILLIAM STEELE & SONS, INC., 1600 Arch St., were awarded the contract for erecting a storage building, 100x50-ft., at School Lane and Reading R.R., for the Powers-Weightman-Rosengarten Co.

Philadelphia, Penn.—The Industrial Tape Mills Co. is having plans prepared for a three-story, 74x207-ft. manufacturing plant, to be erected at Allegheny and Rosehill Sts. The cost will be $50,000.

Sharon, Penn.—Plans have been completed for the new benzol plant for the Carnegie South works, and construction will soon begin. Carl Still will be in charge of the work.

Charlestown, W. Va.—The C. L. Robinson Ice & Cold Storage Corporation will erect a large cold storage plant, to cost $50,000.

+Durham, N. C.—The First National Bank has awarded a contract to the GEORGE A. FULLER CO., of New York, N. Y., for the erection of an eight-story office building on the site now occupied by the bank. The cost will be $200,000.

Mobile, Ala.—The plant of the A. J. Spencer Lumber Co., recently destroyed by fire, will be rebuilt at a cost of about $30,000.

New Orleans, La.—The Interstate Distilling Co. will erect a distillery on Pine St., to cost about $24,000.

Chattanooga, Tenn.—The Queen & Crescent R.R. Co. will construct a station and warehouse, to cost $250,000.

+Akron, Ohio—The contract for constructing the six-story building at Mill and High Sts. has been awarded by the

Brouse & Shraner Real Estate Co. to the CARMICHAEL CONSTRUCTION CO., at about $60,000.

+Cincinnati, Ohio—Contract for remodeling the Manischewitz Bakery, 834 West Sixth St., has been awarded to DAVID GORDON, 734 West Seventh St., at $35,000.

Cleveland, Ohio—The Ferry Cap & Set Screw Co., 2151 Scranton Rd., has filed plans for a three-story, 40x176-ft. addition to its plant. It will cost about $20,000.

Cleveland, Ohio—The Grabler Mfg. Co. will construct a three-story brick and steel machine shop, at 6565 Broadway. Christain, Schwarzenberg & Gaede are the Archs.

Martins Ferry, Ohio—A company reported to be connected with the Wheeling Corrugated Co. will soon erect a chemical plant at Martins Ferry. The plant will cover an area of two acres and will be of steel construction.

Newport, Ohio—Plans have been prepared for the construction of a $50,000 addition to the plant of the Donaldson Lithographing Co.

Springfield, Ohio.—The Bowlus-Hackett Fruit Co. will construct a modern three-story, and basement, concrete, cold storage and commission warehouse, to cost $65,000. Charles J. Bowlus, is Pres.

+Warren, Ohio—The Chicago-Cleveland Car Co. has awarded a contract to JAMES L. STUART, 915 Illuminating Bldg., Cleveland, for erecting a one-story, 140x300-ft. factory. The contract price is $80,000.

Youngstown, Ohio—The Fisher Fireproof Storage Co. plans to erect a warehouse to cost $75,000.

+Indianapolis, Ind.—The Federal Foundry Co. has awarded a contract to the McCLINTIC-MARSHALL CO., Pittsburgh, Penn., for the construction of a one-story, 180x400-ft. foundry. The contract price is $100,000. W. J. Carter, Rockerfeller Bldg., Cleveland, Ohio, is the Arch.

Lansing, Mich.—D. B. Moore, Arch., 200 Tussing Block, is preparing plans for a three-story, 56x114-ft. factory for the Michigan Screw Co., Estimated cost is $40,000.

Chicago, Ill.—The U. Livingston Bakery Co., South Wabash Ave., will erect a two-story addition to its plant, to cost $20,000. J. Aslschlager & Son are the Archs.

+Fond du Lac, Wis.—THE IMMEL CONSTRUCTION CO. hs been awarded a contract to construct for the Kimberly-Clark Co. a two-story, 88x100-ft. brick bleach plant and a one-story, 80x148-ft. concrete, brick and steel addition to the paper mills and offices. Estimated cost, $25,000.

St. Paul, Minn.—Local press reports state that bids will be received soon by the Northern Pacific R.R. Co., for the erection of a new roundhouse and locomotive repair shop. The cost to be about $500,000. Noted July 23.

The North American Oil Engine Co. will in a short time construct a $250,000 factory in the Midway district for the manufacture of a new kerosene engine.

St. Louis, Mo.—The J. M. Dunham Co., Archs., St. Louis, are receiving bids for the erection of a seven-story, 95x128-ft., slow combustion factory, at Sixth and Spruce Sts., for the J. L. Howard estate of Brooklyn, N. Y. The building will be of reinforced concrete and red stock brick. The estimated cost is $110,000.

St. Louis, Mo.—The Landau Cabinet Co. will erect a three-story and basement addition to its plant, to cost $50,000.

Tulsa, Okla.—The Inez Manufacturing Co., will build a fabric mill costing over $2,000,000, at Sand Springs, a suburb of the city.

Seattle, Wash.—The entire plant of the Western Steel Corporation at Irondale, Wash., will be moved to Seattle and operated by the Pacific Coast Steel Co., which took it over some months ago. The Irondale plant has a capacity of 150 tons per day. T. Scott Clinigan Mgr., of the local concern, will take charge of the new enterprise.

Seattle, Wash.—The Commissioners of the Port of Seattle will receive bids until Aug. 10 for the construction of a reinforced concrete grain elevator to cost about $300,000.

Portland, Ore.—The Electrolitic Gas Co., Dayton, Ohio, will build a plant here for the manufacture of oxygen and hydrogen to supply the local market. A site has been purchased, and plans for the structure completed. Work on the new plant will start in the near future. E. A. Finkenbeiner will be Mgr. of the Portland plant.

Fresno, Calif.—The Sperry Flour Co., San Francisco, will construct a nine-story elevator, estimated to cost $15,000. W. M. Downs, 343 Sansome St., San Francisco, is Secy.

San Francisco, Calif.—The Ghirardelli Chocolate Co. will erect a two-story and basement manufacturing plant to cost $60,000 at North Point and Van Ness Ave. William Mooser is Arch.

Hamilton, Ont.—Proctor and Gamble, soap and perfume manufacturers, Cincinnati, Ohio, contemplate establishing a plant in Hamilton to cost $250,000.

Niagara Falls, Ont.—The Titanium Alloy Mfg. Co. will build an addition to its foundry on Sugar St. Colson & Hudson, 35 Dun Bldg., Buffalo, N. Y., are preparing plans.

Port Dover, Ont.—The Port Dover Brick & Tile Co., whose plant was burned on July 12 at a loss of $20,000, will rebuild at a cost of $50,000. W. McDonald, Port Dover, is Mgr.

New Westminster, B. C.—The plant of the Pacific Chocolate Co., recently burned at a loss of $35,000, will be rebuilt.

Vancouver, B. C.—The Morrison Nail & Wire Works are having plans prepared for a new $100,000 factory.

Vancouver, B. C.—The Royal Crown Soaps Ltd., will construct a large plant on the south shore of Burrard Inlet in Burnaby. The new development will cost about $250,000.

FEDERAL GOVERNMENT WORK

Repairing Vessel—Boston, Mass.—Bids will be received until 2 p.m., Aug. 3, by the Light House Inspector, Boston, Mass., for repairs to light vessel No. 85.

+Repairing Vessel—Boston, Mass.—The contract for repairing light vessel No. 42, has been awarded t the NEW LONDON MARINE IRON WORK CO., New London, Conn., at $5118. Noted July 2.

Sale of Building—Boston, Mass.—Bids will be received until 2 p.m., Aug. 14, by the Light House Inspector, 19 Congress St., Boston, Mass., for the sale of the disused dwelling and fuel house on Spectacle Island, Boston Harbor, Mass.

Alterations, Etc.—New York, N. Y.—Bids were received July 20, by Oscar Wenderoth, Superv. Arch., Treasury Dept., for alterations and betterments at the U. S. post office and courthouse, New York, as follows: George A. Fuller Co., 111 Broadway, New York, $67,210; Marble Arch Co., 261st St. and Broadway, New York, $74,000; Concord Construction Co., Brooklyn, N. Y., $68,700; E. H. Peterson Co., 1328 Broadway, New York, $63,890; William H. Egan, 147 East 125th St., New York, $85,700; Northeastern Construction Co., 225 Fifth Ave., New York, $62,231; Conners Bros. Co., 153 West Kingsbridge Road, New York, $67,000, Neptune B. Smyth, 413 East 34th St., New York $58,200. Noted July 16.

+Court House—New York, N. Y.—The contract for the alterations and betterments of the United States Courts in the United States Court House and Post Office Bldg., New York, has been awarded to NORTHEASTERN CONSTRUCTION CO., 225 Fifth Ave., New York, at $62,231. Noted July 16.

Conduit and Wiring—New York, N. Y.—Bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for ventilation, electrical conduit and wiring, etc. in the U. S. post office and court house, New York, as follows: Evans Almirall Co., 7 Dominick St., New York, $11,980; Herrman & Grace Co., 683 Bergen St., Brooklyn, N. Y., $12,200; William J. Olvaney, 177 Christopher St., New York, $14,000.

Post Office—Camden, N. J.—Bids will be received until 3 p.m., Aug. 18, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for a conduit and wiring system, lighting fixtures, etc., at the U. S. post office at Camden, N. J.

★+Sea Wall and Timber Groins—Philadelphia, Penn—The contract for constructing sea wall and timber groins at Liston's Range Front light station, Delaware, has been awarded to LATTA & TERRY CONSTRUCTION CO., Philadelphia, Penn., at $2100. Other bidders were as follows: Henry L. Tatnall, Wilmington, Del., $2242; Concrete Engineer & Construction Co., Philadelphia, Penn., $2520; Jones Construction Co., Wilmington, Del., $2789; E. Hart, Norfolk, Va., $3120. Noted May 28.

★Bulkhead—Wilmington, Del.—Bids will be received until 11 a.m., Aug. 10, by Maj. E. N. Johnston, Corps Engrs., U. S. A., for constructing pile and timber bulkhead at Christiana River, Del.

Repairing Vessel—Baltimore, Md.—Bids will be received until 2 p.m., Aug. 10, by the Light House Inspector, for sheathing the light house tender, "Laurel".

★Dredging—Broad Creek, Md.—Bids were received July 24, by Col. Lansing H. Beach, Corps Engrs., U. S. A., for dredging about 190,000 cu.yd. in Broad Creek, as follows: Sanford & Brooks Co., 24 Commerce St., Baltimore, Md., 9.7c. per cu.yd. (recommended for acceptance); McLean Contracting Co., Baltimore, Md., 15.5c.; Atlantic Gulf & Pacific Co., New York, N. Y., 15.9c.; Maryland Dredging & Contracting Co., Baltimore, Md., 12.3c.; Richards Dredging Co., Philadelphia, Penn., 12.5c.; W. H. French, Norfolk, Va., 10c. Noted July 16.

+Alterations to Building—Washington, D. C.—The contract for alterations, repairs, etc., to the auditors' building, Washington, D. C., has been awarded to SKINKER & GARRETT, Washington, D. C., at $10,068. Noted July 23.

+Boilers—Washington, D. C.—The contract for furnishing 47 pumps for the new battleship has been awarded by the Navy Department to BLAKE & KNOWLES, Cambridge, Mass., at $66,000.

+Post Office—Clarksdale, Miss.—The contract for the construction of a post office at Clarksdale has been awarded to CALLAHAN-MANDL CO., Chicago, Ill., at $93,039. Noted Feb. 5.

Post Office—Tupelo, Miss.—Bids will be received until 3 p.m., Aug. 26, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of a one-story mezzanine and basement, stone and brick faced building, of 4000 sq.ft. ground area, fireproof first floor and ceiling, composition roof, for the U. S. post office at Tupelo, Miss.

Post Office—Jennings, La.—Bids were received as follows, July 21, for the construction of a post office at Jennings, (a) limestone; (b) sandstone: Newport Contracting & Engineering Co., Newport News, Va., (a) $42,500; (b) $42,000. Heman Construction Co., St. Louis, Mo., (a) $44,985. Daniel T. McCarthy, Philadelphia, Penn., (a) $45,785; (b) $46,215; J. F. Jenkins & Co., Ocala, Fla., (a) $46,500; (b) $48,500. P. J. Boutte, New Iberia, La., (a) $45,570; (b) $45,770. Algernon Blair, Montgomery, Ala., (a) $42,638; (b) $43,500. William J. Brennen, Williamsport, Penn., (a) $44,995; (b) $45,235. J. T. McKnight, Hallettsville, Tex., (a) $49,000. It will be two story and basement structure, 3800 sq.ft. ground area, construction nonfireproof, stone and brick facing, composition roof. Noted June 18.

Repairs to Wharf—New Orleans, La.—Bids were received July 18, for repairs to wharf for floating dry dock at the naval station, New Orleans, as follows: Lewis M. Dalgren, New Orleans, $13,438; John S. Attenhofer, New Orleans, $17,096; Lester F. Alexander, New Orleans, $16,860; Doullut & Williams, New Orleans, $19,000; John Riess, New Orleans.

$21,290; Henry Monk, Pensacola, Fla., $14,736; Jefferson Construction Co., New Orleans, $29,815. Noted July 9.

★Drilling for Foundation—Nashville, Tenn.—Bids were received July 17, by Maj. H. Burgess, Corps Engrs., U. S. A., for drilling for subsurface investigations of foundations at Dam Sites, Nos. 2 and 3, Muscle Shoals, Tennessee River, as follows: J. A. Brennan Drilling Co., 30 Carsins St., Pittsburgh, Penn., $42,508, Giles & Clark, 30 Church St., New York, $69,170, H. R. Amelina Prospecting Co., Liggett Bldg., St. Louis, Mo., $103,374, T. A. Scott Co., Inc., New London, Conn., $105,301; Sprague & Henwood Inc., Scranton, Penn., $40,430; Sullivan Machine Co., 122 South Michigan Ave., Chicago, Ill., $110,335. Noted June 18.

Post Office—Fulton, Ky.—Bids will be received until 3 p.m., Sept. 2, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete, of the U. S. post office at Fulton, Ky.

+Post Office—Canton, Ohio—The contract for the construction of an extension to the post office at Canton has been awarded to FRANK M. WEAKLEY, Meridian, Miss., at $18,890. Noted June 4.

+River Bulkhead—Alpena, Mich.—The contract for constructing a river bulkhead at the Alpena post office, has been awarded to JOHN MONAGHAN, Alpena, at $4925. Noted July 9.

Post Office—Holland, Mich.—Bids will be received until 3 p.m., Sept. 9, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of the U. S. post office at Holland, Mich. It will be a two-story and basement building, ground area 6170 sq.ft., stone facing, partial fireproof construction.

Breakwater—Chicago, Ill.—Bids were received July 23, by Lieut.-Col. W. V. Judson, Corps Engrs., U. S. A., for constructing timber breakwater at Chicago Harbor, Ill., as follows: Burk, Smith & Nelson, Chicago, Ill., $168,832; United States Development Co., Chicago, Ill., $177,880; Byrne Bros. D. & E. Co., Chicago, Ill., $166,186; Edmund Gillen Dock Dredge & Engineering Co., Racine, Wis., $235,149; Great Lakes Dredge & Dock Co., Chicago, Ill., $139,535 (recommended for acceptance); Fitzsimmons & Connell Dredge & Dock Co., Chicago, Ill., $172,996. Noted July 9.

Post Office—Le Mars, Iowa—Bids were received July 27, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Le Mars, (a) limestone; (b) sandstone; from: Heman Construction Co., St. Louis, Mo., (a) $44,970; (b) $45,970. King Lumber Co., Charlottesville, Va., (a) $47,400; (b) $50,000. Noted June 18.

Post Office—Winfield, Kan.—Bids will be received until 2 p.m., Sept. 3, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of a two-story and basement stone, terra cotta and brick faced building of 4400 sq.ft. ground area, fireproof except roof, for the U. S. post office at Winfield, Kan.

Post Office—Bozeman, Mont.—Bids were received as follows July 20 by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Bozeman, Mont., (a) limestone; (b) sandstone: M. L. Holliday, Greensboro, N. C., (a) $67,023; (b) $68,500. Leigland, Kleppe & Co., Great Falls, Mont., (a) $67,400; (b) $67,200. Deiter & Wenzel Construction Co., Wichita, Kan., (a) $69,989; (b) $71,600. George Hinchliff Construction Co., Chicago, Ill., (a) $71,000. Reynolds, Sypher & Shackleton, Butte, Mont., (a) $71,647; (b) $73,066. It will be a two-story and basement building, 4900 sq.ft., ground area, partially fireproof construction, stone and brick facing, composition roof. Noted May 28.

+Metal Flumes—Great Falls, Mont.—The contract for furnishing metal flumes for the Milk River Irrigation project Montana, has been awarded to the HESS FLUME CO., Denver, Colo., at $5024. Noted July 9.

+Earthwork and Structures—Great Falls, Mont.—The contract for earthwork and structures in connection with the St. Mary storage unit of the Milk River irrigation project, Montana, has been awarded to JAMES BROWN, Browning, Mont., at $5126. The work involves the excavation of 10,780 cu.yd. of material, the placing of 2500 cu.yd. of concrete and erecting in structures 113,000 ft. b.m. of lumber. Noted June 18.

+Drains—Huntley, Mont.—Contracts for the construction of drains in connection with the Huntley Irrigation project, have been awarded as follows: Schedule 1, involving excavation, laying of tiling and back filling, to the HOWELL ATHERLY CO., Billings, Mont., at $8245, Schedule 2, for similar work to M. LINDSTROM, Billings, Mont., at $11,160. Noted May 28.

Repairing Wharf—Galveston, Tex.—Bids were received by the Custodian, U. S. Quarantine Station, Galveston, for repairs on wharf and dolphins, Galveston, as follows: Blodgett Construction Co., $8000; Charles Clarke & Co., $8900; Gracey & Avoy, $8875; O. E. Fischer Building Co., $9418; Charles Funk, $9800; Charles C. Ryals, $6450. All bidders of Galveston, Tex.

Elevator—Guthrie, Okla.—Bids were received July 18, for installing a passenger elevator in the U. S. post office and courthouse at Guthrie, as follows: Ohio Elevator & Machine Co., Columbus, Ohio, $7760, Kaestner & Hecht Co., Chicago, Ill., $5390, Kimball Bros. Co., Council Bluffs, Iowa, $6780, Otis Elevator Co., Washington, D. C., $5974. Noted June 25.

+Building—Phœnix, Ariz.—The contract for constructing the brick industrial building at the Phœnix Industrial school has been awarded by the Commissioner of Indian Affairs, Washington, D. C., to CHARLES H. ODAM, Phœnix, Ariz., at $14,900. Noted June 18.

★Canal—Phoenix, Ariz.—Bids will be received by F. H. Newell, Dir., U. S. Reclamation Service, Phoenix, Ariz., until 2 p.m., Aug. 24, for constructing the Wallace Feeder Canal, Salt River Project, Arizona. For details see advertisement under "Contracts to Be Let."

Oil Burning Plant—Eureka, Calif.—Bids will be received until 3 p.m., Aug. 25, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for an oil burning plant for heating boiler in the U. S. post office and custom house at Eureka, Calif.

Coal Hoisting Tower—San Diego, Calif.—Bids will be received until 11 a.m., Aug. 29, by H. H. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a coal hoisting tower for the naval coal depot, San Diego, Calif.

Cutoffs—Stockton, Calif. — The U. S. Government has appropriated $249,000 for two cutoffs in the San Joaquin River.

Ice and Storage Plant—Pearl Harbor, Hawaii—Bids will be received until 11 a.m., Aug. 29, by H. R. Stanford, Ch., Bureau of Yards and Docks, Navy Dept., Washington, D. C., for building and equipping an ice making and cold-storage plant at the U. S. Naval Station, Pearl Harbor.

MISCELLANEOUS

★Subway Station—Boston, Mass.—(Official)—Bids will be received until noon, Aug. 4, by the Boston Transit Commission, 15 Beacon St., Boston, for constructing the Park St. station of the subway.

+Dredging—Boston, Mass.—Contracts were awarded, July 21, by the State Harbor and Land Commissioners for dredging as follows: To the J. S. PACKARD CO., Providence, R. I., for dredging Duxbury Bay; to the BAY STATE DREDGING CO., LTD., Boston, for dredging a channel and basin in Scituate Harbor.

Bids were opened, July 21, by the State Harbor and Land Commissioners for dredging 20,000 cu.yd. from Mill River, as follows: Bay State Dredging Co., Ltd., 32c. per cu.yd. and $10, per cu.yd. for removing boulders; Eastern Dredging Co., Boston, 29.9c. and $8; John H. Gerrish, Boston, 28.3c. and $6.

Wharf—Charlestown, Mass.—The Pennsylvania Coal Co., Charlestown, plans to construct a wharf and buildings between the Terminal Stores and the city wharf on Medford St. Estimated cost, $150,000.

Fire Apparatus—Weymouth, Mass.—The town plans to spend $24,500 for fire apparatus. Robert S. Hogman is Chn. Fire Com. Town Council.

Fire Station—Darien, Conn.—N. E. Emmons, Arch., Stamford, Conn., has prepared plans for a fire station for the city.

+Barges—Albany, N. Y.—The New York & Buffalo Barge Co., Albany, July 17, awarded the contract to the HAMILTON-CHAMBERS BARGE CO., 29 Broadway, New York, for constructing 30 barges to operate on the new state barge canal and the Hudson River. Estimated cost, $1,800,000.

★Barge Canal Work—Albany, N. Y.—(Official)—Bids were received July 21, by Duncan W. Peck, State Supt. Pub. Wks., Albany, for constructing bridges over the Mohawk River at (a) Crescent, N. Y., Barge Canal Contract 109, and at (B) Amsterdam, N. Y., Barge Canal Contract 118. The bids follow: (A) M. Fitzgerald, Hoosick Falls, N. Y., $205,026; Frank L. Cohen, Buffalo, N. Y., $183,694; Holler & Shepard, Rochester, N. Y., $180,618; Parker & Beebe. Waterford, N. Y., $195,150; Penn Bridge Co., Beaver Falls, Penn., $203,813; Lathrop, Shea & Henwood, Buffalo, $174,393; Scott Bros., Rome, N. Y., $174,576; John Monks & Sons, New York, $201,548; John M. Holler, Albany, $183,738; Lupfer & Remick, Buffalo, N. Y., $174,974; Larkin & Sangster, Seneca Falls, N. Y., $163,917; Oswego Construction Co., $188,139; Walsh Construction Co., Davenport, Iowa, $206,407; engineer's estimate, $190,244; (B) Penn Bridge Co., $164,568; Frank L. Cohen, $152,548; Larkin & Sangster, $163,463; John M. Holler, $157,604; Lathrop, Shea & Henwood, $147,408; Eastover Construction Co., Gloversville, N. Y., $192,635; Lupfer & Remick, Buffalo, N. Y., $158,093; Walsh Construction Co., $159,462; engineer's estimate, $153,093. Noted July 2.

★Barge Canal Work—Albany, N. Y.—Bids will be received until noon, Aug. 11, by Duncan W. Peck, State Supt. Pup. Wks.,, Albany, for constructing a bridge over the Erie Canal in the village of Yorkville, Oneida County, N. Y., and completing the same within 12 months from the date of the execution of the contract; engineer's estimate, $103,180; for constructing a lock and removing the existing tide gates in the Shinnecock and Peconic Canal, and completing the same within 12 months from the date of the execution of the contract: engineer's estimate, $40,996.

★Bids will be received until noon, Aug. 25, by Duncan W. Peck, State Supt. Pub. Wks., Albany, for Contract No. 46A¾, Erie Canal, Sect. 7, for completing the construction of the canal from Fox Ridge to the Montezuma Aqueduct; length 4.49 miles; engineer's estimate, $333,941; Contract No. 125, Erie Canal, Sect. 2, for constructing the substructure, superstructure and approaches of the Vischers Ferry Road Viaduct over the Troy-Schenectady branch of the New York Central & Hudson River R.R.; engineer's estimate, $45,885; and Contract No. 126, Champlain Canal, Sect. 1; for raising highway bridge at Mechanicsville, engineer's estimate, $8314.

+Duncan W. Peck, State Supt. Pub. Wks., has awarded the contract for constructing the highway bridge over the Mohawk River at Amsterdam, (Barge Canal Contract No. 118), to LATHROP, SHEA & HENWOOD, Buffalo, N. Y., at $147,608.

Fire Escapes—Binghamton, N. Y.—The citizens will vote soon on the proposition to issue $22,000 in bonds for fire escapes. John A. Giles is City Engr.

★Subway—New York, N. Y.—(Borough of Manhattan)—Bids were received, July 24, by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for the construction of Sect. No. 5 of Routes Nos. 4 and 36, a part of the Broadway-Fourth Ave. subway, a two-track railroad in the Borough of Manhattan, connecting the Broadway Subway with the Queensboro Bridge and extending from Seventh Ave. to Fifth Ave., where the two tracks diverge, one continuing through 59th and the other through 60th St. to Second Ave. The unofficial totals follow: Degnon Contracting Co., $2,808,661; Oscar Daniels Co., $3,103,419; Holbrook, Cabot & Rollins Corporation, $3,341,000; United States Realty & Improvement Co., $3,497,888; Smith, Hauser & McIsaacs, Inc., $3,662,000. All bidders are of New York.

★Subway—(Station Finish)—New York, N. Y.—(Borough of Brooklyn)—Bids were received July 23, by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for the construction of station finish on Sections Nos. 1 and 2 of Route No. 11-B, a part of the Broadway-Fourth Ave., Brooklyn, rapid transit railroad, extending under Fourth Ave., from 40th to 90th St. The stations to be finished are located at 45th St., 53rd St., 59th St. (express), Bay Ridge Ave., 77th St. and 86th St. (express). The bids follows: Station Construction Co., 277 Broadway, Manhattan, $250,000; Marble Arch Co., $257,000; Snare & Triest Co., $275,300; P. J. Carlin Construction Co., 1123 Broadway, $280,000; MacKinley Engineering Co., 51 Chambers St., $285,208; Conners Bros. Co., 153 West Kingsbridge Road, $300,176; Carpenter, Boxley & Herrick, 375 Ovington St., Brooklyn, $333,929; Thos. J. Buckley Construction Co., 303 Fifth Ave., $335,000; Norton & Gorman Contracting Co., 303 Douglas St., Brooklyn, $339,732; E. E. Smith Contracting Co., 101 Park Ave., $366,000.

Pier, Dredging—Bayonne, N. J.—The Lehigh Valley R.R. Co. plans to erect a pier on the Kill von Kull shore front, 1150x67 ft. A 35-ft. canal from the pier to the main channel of the Kill von Kull will be dredged. The company is also considering the erection of two unloading machines with a capacity of 500 tons each. A. L. Roberts, South Bethlehem, Penn., is Mech. Engr.

Pier Work, Cranes—Hoboken, N. J.—The Hoboken Land & Improvement Co. has been granted permission by the New Jersey Harbor Commission to extend its pier at the foot of Sixth St., Hoboken, 80 ft., double-deck the same its entire length and concrete it, also to install a system of traveling cranes for freight handling. Estimated cost, $139,000.

Stables—Newark, N. J.—Plans are being prepared by Hughes & Backoff, Archs., Newark, for two stables to be constructed for the city, at a total cost of $235,000.

Park Work—Trenton, N. J.—The City Commissioners, plan to improve Mahlon Stacy Park at a cost of $20,000. J. R. Fell, Jr., is City Engr.

++Piers—Philadelphia, Penn.—Bids were received, July 20, by George W. Norris, Dir. Dept. Wharves, Docks and Ferries, for constructing the superstructures of Piers 38 and 40 in the Delaware River between Catherine and Christian Sts. The contract, it is reported, has been awarded, to the SNARE & TRIEST CO., Woolworth Bldg., New York, at $458,700.

+Dredging—Baltimore, Md.—The Canton Co., July 14, awarded the contract to the MARYLAND DREDGING & CONTRACTING CO., Baltimore, for dredging a 35-ft. channel to and alongside its new concrete pier.

+Dock, Etc.—Charleston, S. C.—The Carolina Clinchfield & Ohio Ry. Co. has awarded the contract to the MACARTHUR BROS. CO., 11 Pine St., New York, for constructing its proposed dock, and terminal foundation at Charleston.

Pier—Augusta, Ga.—The Bridges, Rivers and Wharves Committee of the City Council, July 15 awarded contracts for the proposed municipal pier as follows: Superstructure, to D. A. BOWE, at $9190; substructure, to the McKENZIE CONSTRUCTION CO., at $9350; building, to D. A. BOWE, at $10,840.

+Wharf—Savannah, Ga.—The city has awarded the contract to the BEASLEY CONTRACTING CO., Savannah, for rebuilding the wharf between Bull and Drayton Sts. Noted June 18.

Levee Work—Clarksdale, Miss.—Bids will be received until Aug. 3 by the Yazoo-Mississippi Levee Board, Clarksdale, for 1,600,000 cu.yd. of levee work in Coahoma and Tunica Counties.

Terminal—New Orleans, La.—St. Louis, Iron Mountain & Southern Ry. and Texas & Pacific Ry.—The Missouri Public Service Commission, July 20, granted the application of these companies to jointly issue $7,500,000 in bonds for terminal work at New Orleans, La. The terminal trackage will be increased, new buildings erected and freight trackage improved. J. R. Stephens, St. Louis, Mo., is Ch. Engr. St. L. I. M. & S. Ry. and C. H. Chamberlin, Dallas, Tex., is Ch. Engr. T. & P. Ry.

Levee Work—Shreveport, La.—Bids will be received until noon, Aug. 5, by the Board of Commissioners of Caddo Levee District, Shreveport, for bank protection work in Caddo Parish, aggregating 11,500 ft. This is a readvertisement of contract for which bids were opened July 15. Noted July 2.

Drainage Work—Union City, Tenn.—Bids will be received until noon, Aug. 4, by J. L. Pickle, Secy. Harris Fork Drainage District No. 3 for 446,700 cu.yd. of floating dredge work, 21,000, cu.yd. of team work and 125 acres of clearing. W. C. Kelly, Union City, is Engr.

Drainage—Trenton, Ky.—The Smith Drainage Co., Huntingburg, Ind., plans to drain a large tract of land near Trenton.

Fence—Cincinnati, Ohio—The Cincinnati Iron Fence Co., Cincinnati, submitted the lowest bid to the Hospital Commission for constructing an iron fence around the hospital grounds, at $12,000.

Gymnasium—Cleveland, Ohio—Laurel School, Cleveland, plans to construct a gymnasium to cost $13,000. Knox & Elliott, Rockefeller Bldg., Cleveland, are Archs.

Creek Work—Greenville, Ohio—The Commissioners of Darke, Shelby, Auglaize and Mercer counties have decided to widen, deepen and straighten Mile Creek. Estimated cost, $100,000. Greenville is the county seat of Darke County.

Fish Hatchery—Put-in-Bay, Ohio—Bids will be received by the State Agricultual Commission, Columbus, Ohio, until noon, Aug. 25, for constructing a fish hatchery at Put-in-Bay. B. F. Gayman is Secy. Comn. Noted July 16.

+Retaining Wall—Indianapolis, Ind.—The Board of Park Commissioners has awarded the contract to the MARION COUNTY CONSTRUCTION CO., Indianapolis, for constructing a retaining wall along the south and east banks of Fall Creek, at $48.50 per lin.ft. The wall will be about 1500 ft. long, 25.9 ft. high, ranging in thickness from five feet at the base to two feet at the top. Bids were opened July 17. Noted July 16.

+Greenhouse—La Fayette, Ind.—Purdue University, La Fayette, has awarded contracts for the proposed greenhouse to A. E. KEMMER, La Fayette, and the FOLEY GREENHOUSE MFG. CO., 3260 West 21st St., Chicago, Ill. Estimated cost, $30,000.

+Cranes—Detroit, Mich.—The Department of Public Works has awarded the contract to ORTON & STEINBRENNER, Detroit, for two locomotive cranes, at $10,450.

★Head-House—Chicago, Ill.—(Official)—Bids will be received by the Harbor and Subway Commission until 11 a.m., Aug. 27, for constructing a head-house, at Pier No. 2, in Harbor District No. 1. E. C. Shankland is Chn. of the Comn.

+Elimination of Grade Crossing—(Subway)—Springfield, Ill.—The Department of Public Works has awarded the contract to IRA DUDLEY, Springfield, for constructing a subway at South Sixth St., under the tracks of the Wabash R.R. to eliminate the grade-crossing at that point, at about $75,000. Noted June 25.

Fire Station and Hall—Weyauwega, Wis.—Bids will be received until noon, Aug. 1, by W. H. Robinson, Village Clk., for the construction of a fire station and village hall.

Drains—Fort Dodge, Iowa—Bids will be received until 1:30 p.m., Aug. 6, by J. L. Hanrahan, County Audr., Fort Dodge, for constructing Drains 80 and 170. Estimated cost, $10,612.

Ditch—Aitkin, Minn.—(Officials)—Bids will be received until 10 a.m., Aug. 1, by J. B. Lemire, County Audr., Aitkin, for constructing Ditch 28. The work calls for 833,859 cu.yd. of excavation. Estimated cost, $102,988.

Creek Work—Duluth, Minn.—The city plans to improve Mission Creek at a cost of $20,000. John Wilson is City Engr.

Ditch—Fairmont, Minn.—Bids will be received until 1:30 p.m., Aug. 4, by H. C. Nolte, County Audr., Fairmount, for constructing Ditch 38. Estimated cost, $16,579.

Ditch—Slayton, Minn.—Bids will be received until 10 a.m., Aug. 11, by W. A. Seeman, County Audr., Slayton, for constructing Ditch 2. Estimated cost, $50,169.

Ditch Work—York, Neb.—Bids will be received until Aug. 8, by H. F. Chapin, County Clk., York, for repairing the Seng-Payne Ditch.

+Bath-house—Hot Springs, Ark.—The contract has been awarded to J. W. SANFORD, Memphis, Tenn., for constructing a bath-house at Hot Springs, at about $50,000.

Wharf and Dock Site Bonds—Beaumont, Tex.—Bids will be asked soon by Frank L. Dormant, City Clk., for $175,000 of wharf and dock site bonds. Noted June 18.

+Levee Repair—Brenham, Tex.—Washington County Improvement District No. 1 has awarded the contract to C. NORDSTROM, Brenham, for repairing the Brazos River Levee, at about $12,000.

Park—Bartlesville, Okla.—The citizens will vote in August on the proposition to issue $775,000 in bonds for a city park.

+Drainage—North Yakima, Wash.—Drainage District No. 3 has awarded the contract to HANS PEDERSON, Madison Block, Seattle, for constructing one of its subdivisions, at $13,000.

Ferry Slip—Port Townsend, Wash.—The Chicago, Milwaukee & St. Paul Ry. Co. plans to construct a ferry slip at Port Townsend.

+Dredging—Seattle, Wash.—The Public Docks Commission has awarded the contract to A. C. U. BERRY, Seattle, for dredging 100,000 cu.yd. for the proposed ferry slip at the following prices: 70,000 cu.yd. at 27c. per cu.yd.; 30,000 cu.yd. at 30c.

Crane—Seattle, Wash.—Bids will be received until Sept. 1 by the Port of Seattle Commission for a gantry crane. Estimated cost, $50,000. Noted June 11.

Vessels—Seattle, Wash.—Lee & Brinton, Naval Archs., Seattle, are preparing plans for two passenger boats for the Puget Sound Navigation Co. Estimated cost, $20,000.

Refrigeration Equipment—Seattle, Wash.—Bids will be received by the Port of Seattle until Aug. 13 for refrigeration equipment for the cold storage plant at the foot of Bell St. Estimated cost, $300,000. C. E. Remsberg is Secy.

Athletic Field Bleachers—Berkeley, Calif.—John G. Howard, Arch., Berkeley, is completing plans for concrete and frame bleachers at the athletic field at the University of California, Berkeley.

Breakwater—El Segundo, Calif.—The Standard Oil Co. plans to construct a breakwater at El Segundo to cost $50,000.

Levees—Fresno, Calif.—The Stinson-Burrell Reclamation District has been organized for the purpose of constructing levees near Fresno to reclaim land in that vicinity. Estimated cost, $193,000.

+Park Work—Los Angeles, Calif.—The Board of Public Works has awarded the contract to WALTER OVERELL for improving the Park Terrace at about $10,000.

+Piling—Oakland, Calif.—The SAN FRANCISCO BRIDGE CO. has been awarded the contract at $270,000 for furnishing and driving creosoted piling along the Key Route Mole from the rock bulkhead to the end of the pier.

Shed—San Bernardino, Calif.—The Atchison Topeka & Santa Fé Ry. Co. plans to construct a reinforced concrete freight shed at San Bernardino. Estimated cost, $198,000. G. W. Harris, Los Angeles, Calif., is Ch. Engr. Coast Lines.

Pier—San Diego, Calif.—The state plans to construct a 1200-ft. pier at the Marine Biological Station north of La Jolla. W. F. McClure, Sacramento, Calif., is State Engr.

Dredging Bonds—San Diego, Calif.—The city will ask for bids soon for $200,000 of dredging bonds. Allen H. Wright is City Clk.

★Dock—San Francisco, Calif.—(Official)—Bids will be received until Sept. 9 by the Union Iron Works Dry Dock Co., for the construction of a dry dock at Hunters Point, San Francisco, 1100 ft. long and 120 ft. wide. For details see advertisement under "Contracts to be Let." Noted July 9.

Fire Apparatus—Upland, Calif.—The city plans to spend $10,000 for fire equipment.

Breakwater—Northwest Cove, N. S.—Bids will be received until 3 p.m., Aug. 12, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for constructing the Tancook Island breakwater.

Coaling Plant—Newcastle, N. B.—Bids will be received until Aug. 1 by L. K. Jones, Asst. Deputy Minister and Secy. Dept. Rys. and Canals, Ottawa, Ont., for the construction of a mechanical coaling plant at Newcastle.

Wharf—St. Stephens, N. B.—The Canadian Pacific Ry. Co. plans to construct a wharf along the St. Croix River near St. Stephens.

+Stadium—Montreal, Que.—The contract has been awarded to the L. A. OTTO CO., LTD., New Birks Bldg., Montreal, for constructing the proposed stadium at McGill University, Montreal, at about $100,000.

+Dredging—Fort William, Ont.—The Department of Public Works, Ottawa, Ont., has awarded the contract to the GREAT LAKES DREDGING CO., Port Arthur, Ont., for dredging at Fort William.

Wharf—Lindsay, Ont.—Plans have been completed for the proposed wharf to cost $35,000.

Repairs to Pier—Newcastle, Ont.—Bids will be received until Aug. 10, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for repairs to the pier at Newcastle.

Wharf Extension—Ottawa, Cnt.—Bids will be received until 4 p.m., Aug. 10, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, for constructing an extension to the eastern wharf at Grosse Isle Quarantine Station, Montmaguy County, Que.

Fire Apparatus—Toronto, Ont.—Bids will be received until Aug. 11 by the Board of Control for motor-driven fire apparatus, fire-hose, etc.

Mausoleum—Calgary, Alta.—The Western Mausoleum Co., Calgary, plans to erect a mausoleum in Union Cemetery.

Fire Equipment—Esquimalt, B. C.—The County Council, Esquimalt, plans to spend about $10,000 for fire equipment. E. A. Ellis is Clk.

Jetty—New Westminster, B. C. — The Provincial Department of Public Works, Victoria, plans to ask for bids soon for constructing Section 2 of the north jetty at the mouth of the Fraser River. This section will be 7100 ft. long, of brush and rock.

+Wharf—West Vancouver, B. C.—The District of West Vancouver has awarded the contract to NAYLOR BROS., Vancouver, for constructing the wharf at 25th St., at $33,200.

BUILDINGS

Manchester, N. H.—The Board of Health has selected the plans of Wilfred E. Provost, of F. T. Provost & Co., Manchester, for the proposed two story brick isolation hospital, to cost about $50,000.

Beverly, Mass.—Herbert J. Winslow, 244 Cabot St., will build a store and office building at Cabot and Hale Sts. to cost about $50,000. Henry B. Alden, 15 Exchange St., Boston, is the Arch.

Boston, Mass.—The Massachusetts Trust Co. will build an office building, 66x105 ft., three stories of brick, steel and stone, on Huntington Ave.

+The contract for erecting the building for the New England Home for Wanderers has been awarded to WOODBURY & LEIGHTON, 185 Summer St. The building will be three stories of brick 40x103 ft., and is estimated to cost $80,000. Brainerd & Leeds, 89 Franklin St. are the Archs.

+Boston, Mass.—The contract for erecting the theater and office building for the Dartmouth Plaza Realty Trust has been awarded to FLERSCHMANN BROS., 507 Fifth Ave., New York, N. Y., Putnam & Cox, 6 Hancock Ave., are the Achs.

Cambridge, Mass.—Edward T. P. Graham, 20 Beacon St., Boston, is preparing plans for a school at Cushing and Lawn Sts. to cost about $55,000.

+Everett, Mass.—The contract for erecting the school at Broadway and High St. has been awarded to DANIEL L. SHEPARD, 46 Cornhill, Boston, at about $40,000. James E. McLaughlin, 111 Devonshire St., is the Arch.

Lynn, Mass.—The Methodist congregation will erect a church costing $45,000. Geo. H. Newton, 6 Beacon St., Boston, is Arch.

Pittsfield, Mass.—J. McArthur Vance, 24 North St., is preparing plans for enlarging a grammar school, at an estimated cost of $50,000.

Somerville, Mass.—Leonard B. Chandler, 45 Jacques St., will build a four-story apartment building of brick and terra cotta on Broadway. The estimated cost is $80,000, P. Varney, 25 Exchange St., Lynn, is the Arch.

Springfield, Mass.—The Y. M. C. A. will build a seven-story building to cost about $100,000.

Seymour, Conn.—Press reports state that about $50,000 will be spent in the erection of a new library. W. L. Ward is Pres. of the Board of Library Directors.

Buffalo, N. Y.—Plans are being prepared for a Medina stone and structural steel edifice for the Church of the Immaculate Conception, to cost $80,000. Rev. Thos. Donohue is Pastor.

Buffalo, N. Y.—Bids will be received by Frank T. Reynolds, Deputy Bldg., Comr., until Aug. 6, for a two-story and basement library and social building. The estimated cost is $40,000. Howard L. Beck is City Arch.

Ithaca, N. Y.—Lewis F. Pilcher, State Arch., has about completed plans for a drill hall to be erected at Cornell University. The estimated cost is $350,000.

Middletown, N. Y.—The Board of Managers of the Thrall Hospital contemplate the enlargement of the hospital at an estimated cost of $63,000.

+Rochester, N. Y.—The general contract for erecting the two-story brick and steel store building for the East Avenue Amusement Co. has been awarded to the GOERSLINE-SWAN CONSTRUCTION CO. The estimated cost is $100,000.

Bloomfield, N. J.—The Board of Education has commissioned William W. Rasmussen as Arch. for the two-story brick, stone and terra cotta school to be built on Grove St., at an estimated cost of $45,000.

Milville, N. J.—The Board of Education contemplates the construction of an 18-room school to cost $79,000.

+Newark, N. J.—The general contract for erecting the North Seventh St. school has been awarded to the BECKER CONSTRUCTION CO., 415 13th Ave., at $67,184. Noted July 16.

+Newark, N. J.—The Public Service Co. has awarded the contract for erecting a terminal building to the HEDDEN CONSTRUCTION CO., 1 Madison Ave. The building will be located on Park Place and will be a combination railway and terminal building. The cost is estimated at $4,500,000. George B. Post & Sons, 347 Fifth Ave., New York, N. Y., prepared the plans.

Nutely, N. J.—The Board of Education has commissioned Armstrong & De Galleke, Archs., New York, N. Y., to prepare plans for a school in the southwestern section of the city. The estimated cost is $48,000.

Trenton, N. J.—The local lodge of the Loyal Order of Moose will construct a building to cost about $100,000.

+Darby, Penn.—The contract for erecting the two-story brick and terra cotta school has been awarded to HENRY L. BROWN, 1714 Sansom St., Philadelphia, at $52,000. Folsom & Stanton, Philadelphia, are the Archs.

McKeepsport, Penn.—The F. A. Woolworth Co. will erect a 4-story brick and stone building on Fifth Ave. to cost $60,000.

New Brighton, Penn.—A site at Third Ave. and and Eight St. has been purchased for the erection of a Y. M. C. A. building, to cost $40,000.

+Philadelphia, Penn.—The contract for building two 4-story apartments at 39th and Ludlow Sts., has been awarded to ISAAC T. SHOEMAKER, Philadelphia, Penn., at about $75,000.

+Philadelphia, Penn.—The contract has been awarded to WILLIAM J. DOYLE for altering the bank at Juniper and Chesnut Sts., for the Pennsylvania Co. for Insurance: The estimated cost is $50,000. Edgar V. Seeler, Real Estate Trust Bldg, is Arch.

Pittston, Penn.—It is reported that bids will be received by the city for erecting a high school to cost about $175,000.

Scranton, Penn.—Plans are being prepared by E. H. Davis, Connel Bldg., for a 12-story Union Bank Building, to be erected at Washington and Lackawanna Ave.

Waynesburg, Penn.—The Y. M. C. A., has selected a site on North Potamac St. for a building to cost $165,000.

Baltimore, Md.—Archer & Allen, Archs., Central Savings Bank Bldg., are preparing plans for enlargeing the lavatory building, at Johns Hopkins Medical School. The estimated cost is $50,000.

Cumberland, Md.—Warren C. White, Henry J. Glick, and others, have commissioned C. M. Anderson, Arch., 324 North Charles St., Baltimore, to prepare plans for a hotel at Washington and Waters Sts. The estimated cost is $300,000.

Spartanburg, S. C.—Hoggson Bros., Archs, New York, N. Y., are preparing plans for a two-story bank building to be erected at West Main and Magnolia Sts. for First National Bank: cost about $50,000.

+Winchester, Ala.—The contract for erecting the court house has been awarded to the LITTLE CLECKLER CO., at about $70,000.

Clarksdale, Miss.—John Garsford, Memphis, Tenn., is preparing plans for a church for the First Methodist congregation to cost, $40,000.

Louisville, Ky.—Brinton L. Davis, Inter-Southern Bldg., Louisville, is preparing plans for an 11-story building for the Kentucky Athletic Club. The estimated cost is $100,000.

+Akron, Ohio—The contract for the erection of the Peoples Hospital has been awarded to the DAWSON CONSTRUCTION CO., Pittsburgh, Penn., at $69,000.

Plans are being prepared by Franz C. Warner, Arch., Clevland, for the erection of an office and terminal building at Federal and Main Sts., for the Northern Ohio Traction Co. The estimated cost is $250,000.

Canton, Ohio—Bids were received by the Board of Education for the construction of the Jackson St. school as follows: George H. White & Son, $58,395; Melbourne Bros., $46,200; Dawson Construction Co., Pittsburgh, Penn., $53,970.

+Kent, Ohio—The contract for the erection of the science building at the Kent State Normal School, has been awarded to EVANS & CO., Columbus, Ohio, at $143,000. Noted July 9.

+Lakewood, Ohio—The contract for the erection of the hospital at Lakewood, has been awarded to the HUNKIN CONKEY CONSTRUCTION CO., Cuyahoga Bldg. The estimated cost is $50,000.

+South Bend, Ind.—The general contract for the erection of the addition to the Oliver Hotel, has been awarded to O. W. ROSENTHAL, 80 East Jackson Blvd., Chicago, Ill. The estimated cost is $100,000.

+Bessemer, Mich.—The contract for the erection of the addition to the Gogebic County Court House has been awarded to HERMAN GUNDLAC, Houghton, Mich. Noted July 16.

+Detroit, Mich.—The general contract for the erection of the 10-story and basement store building for J. L. Hudson & Co. has been awarded to A. A. ALBRECHT & CO., 820 Penobscot Bldg. The estimated cost is $460,000.

Plans are being prepared by F. Swirsky, Arch., 89 University Bldg., for the erection of a six-story and basement apartment building. The estimated cost is $160,000.

+Mount Pleasant, Mich.—The general contract for the erection of the three-story and basement 80x140-ft. school has been awarded to C. HOERTZ & SON, Grand Rapids, Mich. The estimated cost is $100,000.

+Standish, Mich.—The general contract for the erection of the two-story and basement school at Standish has been awarded to C. S. WILCOX, Lansing, Mich. The estimated cost is $40,000.

+Chicago, Ill.—The masonry contract for the three-story and basement apartment house has been awarded to JOHN E. MOHLIN, 1442 Farragut Ave.

Chicago, Ill.—Boillot & Lauck, Archs., Scarritt Bldg., Kansas City, Mo., are preparing plans for the erection of an apartment house in Chicago. The estimated cost is $180,000.

+Chicago, Ill.—The masonry contract for the masonic temple to be erected at 23d and Millard Ave., has been awarded to F. A. SIEBOLST & SON, 189 West Madison St., carpentry, OLIVER SOLLITT CONSTRUCTION CO., 38 South Dearborn St. Noted Apr. 30.

+Quincy, Ill.—The general contract for the erection of the Orpheum Theater, has been awarded to BUERKIN & KAEMPEN, at $40,000.

+Rock Island, Ill.—The general contract for the erection of the six-story club building for the Order of Eagles has been awarded to HERMAN HANSEN, 1011 17th St. The estimated cost is $50,000.

Milwaukee, Wis.—H. C. Koch & Son, Archs., Wells Bldg., are preparing plans for the erection of a store and office building for the Oxford Realty Co., at Jefferson and Oneida Sts. It will be three stories, 86x120 ft., of brick and stone.

+Des Moines, Iowo—The contract for the erection of the State Hospital has been awarded to W. F. KUCHARO & CO., Des Moines, at $39,380.

+Waterloo, Iowa—The general contract for the erection of the school at Waterloo, has been awarded to LAURITZEN CONSTRUCTION CO., Waterloo. The estimated cost is $40,000.

+Minneapolis, Minn.—The general contract for the erection of the gymnasium for the University of Minnesota, has been awarded to CAMERON & CO., 628 Ryan Bldg., St. Paul, Minn. The estimated cost is $125,000.

+The contract for the erection of the School of Mines building has been awarded to R. J. CHENEY & CO., 716 11th Ave. Noted June 18.

Wichita, Kan.—Bids will be received until Aug. 1, by H. S. Conrow, Arch., 812 Beacon St., for the erection of the Y. W. C. A., at Wichita. The estimated cost is $50,000.

Kansas City, Mo.—L. G. Middaugh, Arch., Kansas City Life Bldg., is preparing plans for the erection of a hotel at Hunter Ave. and Broadway, for the Clark Estate. The estimated cost is $250,000.

St. Louis, Mo.—The Missouri Athletic Association contemplates erecting a 10-story building at Fourth St. and Washington Ave. The estimated cost is $500,000.

+Wellston, Mo.—The general contract for the erection of the high school has been awarded to E. A. LAUMANN, 6402 Wells Ave., St. Louis, Mo. The estimated cost is $85,000.

Austin, Tex.—Plans are being prepared by John Eberson, Arch., Chicago, Ill., for the erection of a theater for Ernest Nealle, and associates.

Dallas, Tex.—The Dallas Chamber of Commerce and the Dallas Club are making arrangements for the erection of a building at Commerce and Poydras Sts. The estimated cost is $250,000.

Silver City, N. M.—The Silver City Hotel Co. will erect a three-story hotel. The estimated cost is $100,000. A. S. Thornson, El Paso, Tex., is the Arch.

Phœnix, Ariz.—V. O. Wallingford, N. F. Marsh and J. F. Scott, Archs., Phœnix, are preparing plans for the erection of a three-story market and hotel at Phœnix. The estimated cost is $250,000.

+Tucson, Ariz.—The general contract for the erection of the agricultural building at the University of Arizona, has been awarded to the WINGET CONSTRUCTION CO., Grant Bldg., Los Angeles, Calif.; plumbing, heating and ventilating, to the ELLIOTT ENGINEERING CO., El Paso, Tex. Noted May 14.

Port Angeles, Wash.—Bids will be received until Aug. 1, by Francis W. Grant, Arch., Melhorn Bldg., Seattle, for the erection of a two-story and basement reinforced concrete courthouse.

Seattle, Wash.—Plans have been prepared by J. L. McCauley, Arch., New York Bldg., for the erection of a ten-story hotel for the Rainier Heat & Power Co. The estimated cost is $200,000.

Seattle, Wash.—W. P. White, Arch., Transportation Bldg., has prepared plans for the erection of a five-story and basement brick apartment house. The estimated cost is $75,000.

Tacoma, Wash.—The B. P. O. E. will erect a clubhouse at Tacoma. The estimated cost is $100,000. D. Williams, Federal Bldg., Tacoma, is Chn.

+Tacoma, Wash.—The contract for the erection of the first unit of the Tacoma General Hospital has been awarded to J. E. BONNELL, 760 Commerce St., at $200,000. Heath & Grove, National Realty Bldg., are the Archs.

Portland, Ore. — The First National Bank will erect a building at Fifth and Stark Sts. The estimated cost is $400,000.

+Berkeley, Calif.—(Official)—The contract for the erection of the gymnasium for the California Institute for Deaf & Blind has been awarded to FRANK GALLEGHER, San Francisco, Calif. Noted July 9.

+Fresno, Calif.—The general contract for the erection of the theater at Fresno, has been awarded to TREHITT & SHIELDS, Fresno, Calif., at $81,800.

Los Angeles, Calif.—The Knights of Pythias will erect a lodge building at Pico and Flower Sts., The estimated cost is $100,000.

+Pasadena, Calif.—The contract for reconstructing the Maryland Hotel, has been awarded to JOHN L. CONNER, 435 West 31st St., Los Angeles, Calif. The estimated cost is $200,000.

Richmond, Calif.—The Board of Education is having plans prepared for the erection of a school at Richmond, Calif. The estimated cost is $52,000.

San Francisco, Calif.—W. H. Crim, Jr., Arch., 425 Kearney St., has prepared plans for the erection of a five-story steel hotel at Twelfth and Market Sts., San Francisco, for I. I. Dehail, Los Angeles. The estimated cost is $90,000.

+San Francisco, Calif.—The Irish Village Co. has awarded a contract for the construction of a group of buildings on the Panama-Pacific International Exposition to the LARSEN-SAMPSON CO., Crocker Bldg., at $150,000.

San Francisco, Calif.—Plans are being completed by Righetti & Headman, Archs., Phelan Bldg., for the erection of a pathological ward at the San Francisco Hospital. The estimated cost is $75,000.

Assistant State Engineer Newman, Ferry Bldg., is completing plans for the erection of a two-story building to be used by the Harbor Post Office as the main mail distributing station for the city.

San Jose, Calif.—The Native Sons will erect a five-story and basement store and lodge building, on North First St. The estimated cost is $100,000. L. T. Lenzen is the Arch.

Guelph, Ont.—Dr. Creelman, Pres. of the Ontario Agricultural College, has prepared plans for the erection of a building at the college. The estimated cost is $50,000.

Powassan, Ont.—Bids will be received until Aug. 6, by Dir. of Contracts, Dept., Militia and Defense, Ottawa, for erecting a drill hall at Powassan.

Winnipeg, Man.—D. Atcheson, Arch., Trust & Lion Bldg., Winnipeg, is preparing plans for the erection of a hall and lodge building for the Ancient Order of Foresters. The estimated cost is $75,000.

Edmonton, Alta.—Adam Bros. will erect a four-story and basement 50x150 ft. reinforced concrete, brick and steel office building. The estimated cost is $150,000.

High River, Alta.—Bids will be received until 4 p.m., Aug. 11, by R. C. Desrochers, Secy., Dept. of Public Works, for the erection of a public building at High River, Alta. Leo Dowler, Calgary, Alta., is the Arch.

New Westminster, B. C.—Gardiner & Mercer, Archs., are preparing plans for the erection of an addition to the courthouse. The estimated cost is $70,000.

August Mietz, 128 Mott St., New York, informs us that the government has recently placed orders for Mietz & Weist oil engines in a number of sizes. The orders include seven of the 45-hp. compressor unit and one 150-hp. direct-reversible marine engine.

H. A. Strauss, consulting engineer, Chicago, has been retained by the bondholders' committee of the Alton, Jacksonville & Peoria Electric Ry. to prepare a complete valuation of the property in connection with the proposed reorganization of the company.

Joseph T. Ryerson & Son, Chicago, announce the opening of a new warehouse in St. Louis, when the company will be able to ship immediately from stock, as it has taken over the plant, merchandise and equipment of the Douglas G. Hager Iron Co.

The Hydraulic Pressed Steel Co., Cleveland, Ohio, has taken over the manufacture of the McKay pressed steel concrete forms. These forms are used in regular building construction and in the New York subway now under construction.

The Thurlow Steel & Forging Co., Chester, Penn., announces that the new forging plant of this company is now in operation, and is equipped for the manufacture of steel forgings weighing from 1 lb. to 10,000 lb. The forge shop includes within its equipment a 1000-ton forging press. The heat-treatment plant consists of heating furnace, oil-tempering tank and a machine shop equipped for both rough and finished machinery. The plant is under the management of John I. Rogers and Daniel C. Eagan.

The Railroad Valuation Co. has recently been organized, with offices at 25 Broad St., New York, N. Y. It is believed that many of the railways will be glad to avail themselves of the services of experienced investigators in the matter of real valuation of railways. Under the Federal Valuation Act carriers are required to furnish maps and other data and perform work which requires considerable detailed experience. George A. Hansel is Pres. of the company.

Motion Picture Cameras, daylight loading, simply built, and designed to be operated by an amateur, are now on the market, and enable permanent film records to be made of almost any operation or process. The near future will see, probably, a great development in this line. Such a camera, used in connection with a projecting machine, offers a complete outfit for reproducing visibly field and shop operations for the purpose of instruction, as a matter of record and a sales argument. Edward W. Robinson, Singer Bldg., New York, N. Y., is making a specialty of moving picture development in the industrial and engineering fields, and is placing on the market complete outfits at a comparatively low cost.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
+Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

PRICES OF ENGINEERING MATERIALS POSTPONED

The compilation of quotations on engineering materials, usually appearing in "Engineering News" in the first issue of the month, has been postponed. The rapid-changing trade and the unusual fluctuations in raw material make many quotations of small benefit. While it has not affected the iron and steel market as yet, it may possibly do so. The price of pig tin has doubled in the week, and it is almost impossible to secure supplies at any price. It is difficult to get trustworthy quotations on leather, because a great deal of the sole leather made in this country is from hides shipped from South America to Europe and then to the United States. The rubber market is likewise disorganized. It is expected that in another week some better index of mercantile conditions may be gathered and quotations published.

Construction work which has been started will be pushed to completion unless the return of low-grade labor to Europe temporarily postpones it. The subway work in New York, it is expected, will not be halted.

The combined forces of government officials and bankers have worked together to prevent any further exportation of gold and provide funds for carrying on work in this country. Fortunately, the commercial establishments of this country have been so thoroughly liquidated in the last year that there is no danger of disaster from causes within.

RAILWAYS

+Pennsylvania—Pennsylvania R.R.—This company has awarded the contract to the LATTA & TERRY CONSTRUCTION CO., Philadelphia, Penn., for constructing an extension of the Sugar Camp Branch of its Tyrone Division in Pennsylvania. It will be 6½ miles long.

Pennsylvania—Delaware, Lackawanna & Western R.R.—This company, it is reported, plans to construct a cut-off between Pocono Summit, Penn., and Henryville, 10 miles. G. J. Ray, Hoboken, N. J., is Ch. Engr.

West Virginia—Baltimore & Ohio R.R.—This company plans to start work soon on eliminating curves and cutting down grades on its Ohio River Division. Work will be started near the city of Sistersville, W. Va. F. L. Stuart, Baltimore, Md., is Ch. Engr.

Georgia—Cairo, Pelham & Moultrie R.R.—This company has been incorporated for the purpose of constructing a railroad connecting Pelham, Cairo and Moultrie, Ga., 50 miles. D. B. Turner, Pelham, Ga., is interested.

Mississippi—New Orleans, Mobile & Chicago R.R.—This company will probably start work soon on its proposed line from Beaumont, Miss., to Waveland, La. A. F. Church, Laurel, Miss., is Supt.

Louisiana—New Orleans, Mobile & Chicago R.R.—See item under Mississippi.

Illinois—Chicago & Northwestern Ry.—This company plans to issue $6,000,000 in bonds for construction work on its lines. W. H. Finley, Chicago, Ill., is Ch. Engr.

Chicago & Alton R.R.—This company plans to spend $150,000 to enlarge its freight yard at Venice, Ill. H. T. Douglass, Jr., Chicago, Ill., is Ch. Engr.

+Wisconsin—Chicago & Northwestern Ry.—This company has awarded the contract to PEPPARD & BURRILL, Minneapolis, Minn., for grading work on about seven miles of logging railroad in Wisconsin.

Minnesota—Minneapolis, Mille Lacs & Northern Ry.—It is reported that, due to insufficient financial support, this company has abandoned its project of constructing the proposed railroad from Anoka, Minn., north to Aitken, Minn. Marshall Roy, 3900 Washington Ave. North, Minneapolis, Minn., is Engr. Noted Feb. 19, Mar. 5 and June 11.

+Nebraska—Chicago, Burlington & Quincy R.R.—The Edward Peterson Co., general contractor for this company's Chalco-Yutan cut-off, has awarded subcontracts to the following: ROBERTS BROS., 17 North La Salle St., Chicago, Ill.; G. W. CONDEN, Omaha, Neb.; PETERSON-BEEMAN CO., Omaha; JOHN MOSSEY, Omaha, and CRAIG & HESS, Omaha. Noted July 16.

South Dakota—South Dakota Central Ry.—This company plans to start work soon on its proposed 25-mile extension north from Watertown, S. D. J. L. Wagner, Sioux Falls, S. D., is Ch. Engr. Noted June 18.

Arkansas—Missouri, Arkansas & Southwestern Ry.—The Arkansas State Board of Railway Incorporation, July 25, granted a charter to this company to construct a 65-mile railway from Mena, Ark., to Hot Springs, Ark. The proposed line will cross Polk, Montgomery and Garland Counties. Capital, $2,500,000. H. Williams, Hot Springs, is interested. Noted July 2 and July 9.

Idaho—Milwaukee Lumber Co.—This company, located at St. Maries, Idaho, will construct a railroad into the Marble Creek lumber district of Idaho.

Washington—Chicago, Milwaukee & St. Paul Ry.—The City Council of Bellingham, Wash., has granted a franchise to this company to construct a line from its terminals in the city to a point on Lake Whatcom about 10 miles. C. F. Loweth, Chicago, Ill., is Ch. Engr.

Oregon—The citizens of Roseberg, Ore., will vote, Oct. 5, on the proposition to issue $300,000 in bonds for constructing a railroad from Roseberg to tidewater.

+California—The ALTA CONSTRUCTION CO., Los Angeles, Calif., has been awarded the contract for constructing the proposed narrow-gage railroad from the Dairy Farm Mine to Sheridan, Calif.

Los Angeles & San Diego Beach Ry.—This company, operating a line between San Diego and La Jolla, Calif., has applied to the State Railroad Commission for permission to issue $750,000 in bonds for the electrification of its system. E. S. Babcock, San Diego, is Pres.

Ontario—Ontario, West Shore Ry.—Bids will be received until Aug. 13 for the purchase of this company's line. Charles Garrow, Barrister, Goderich, Ont., may be addressed for further information.

+Saskatchewan—Canadian Northern Ry.—This company has awarded the contract to A. L. McKAY, Estevan, Sask., for grading the proposed branch from Bienfait, Sask., to Estevan.

Saskatchewan—Canadian Northern Ry.—This company plans to award grading contracts in the fall on the proposed extension of its Radville Branch toward Weyburn, Sask. M. H. MacLeod, Winnipeg, Man., is Gen. Mgr. and Ch. Engr.

ELECTRIC RAILWAYS

Augusta, Maine—The Lewiston, Augusta & Waterville Street Ry. Co. has been granted a franchise to extend some of its lines in Augusta. Harry B. Ivers, Portland, is Gen. Mgr. and Pur. Agt. Noted July 23.

Dover, N. H.—The Dover, Somersworth & Rochester Street Ry. Co. is considering plans for the extension of its line from Dover to Portsmouth, on the New Hampshire side of the river. Franklin Woodman, Haverhill, Mass., is Vice-Pres. and Gen. Mgr.

Buffalo, N. Y.—The City Council has granted a franchise to the Buffalo & Lake Erie Traction Co. to construct an electric railway on State St., from 12th St. to Turnpike, in Buffalo. A. R. Myers, Erie, Penn., is Gen. Mgr.

New York, N. Y.—(Borough of Queens)—The New York & Long Island Traction Co. has applied to the Board of Estimate for a franchise to construct and operate an electric railway on Lawn Ave., from Liberty Ave. to Rockaway Road, in the Fourth Ward, Borough of Queens. This line will connect with the Brooklyn Rapid Transit elevated extensions of the Fulton St. line to Jamaica. W. O. Wood, Long Island City, is Vice-Pres., Gen. Mgr. and Pur. Agt.

Yardville, N. J.—The Trenton & Mercer County Traction Co. will extend its system from Yardville to Crosswicks, about 2½ miles. W. H. Hitchcock, Trenton, is Gen. Mgr.

+★Hershey, Penn.—The Hershey Transit Co. has awarded the contract for the construction of an electric railway from Hershey to Elizabethtown, about 9 miles, to the KING, EVANS, RILEY CO., Pottsville, Penn. Noted June 11.

+Meadville, Penn.—The Northwestern Pennsylvania Ry. Co. has awarded a contract to the ERIE STEEL & CONSTRUCTION CO. for re-laying its tracks from Cambridge Springs to Meadville.

Morrisville, Penn.—The Interurban Traction Co. has been granted permission to build an additional track on Trenton Ave.

Reading, Penn.—The Reading, Birdstown & Pottsville Trolley Co. is preparing plans for the construction of an electric railway from Reading to Pottsville, about 18 miles. William Abbott Whitman, Reading, is Gen. Mgr.

Frederick, Md.—The Hagerstown & Frederick Electric Ry. Co. has purchased the Frostburg Illuminating & Mfg. Co. This is the first step toward the proposed construction of an interurban electric railway to connect Johnstown, Frostburg, Cumberland and Hagerstown.

Andrews, N. C.—The Hiawassee Valley Ry. Co. is making preliminary arrangements for the construction of an electric railway to connect Andrews, N. C., and Hiawassee, Ga., about 35 miles. J. Q. Barker, Andrews, is interested. Noted Mar. 5.

Jesup, Ga.—M. Arlino, Jesup, is interested in the organization of a company for the purpose of constructing an electric railway from Jesup to Doctortown.

Miami, Fla.—The City Council has granted a franchise to the Miami Traction Co. to construct a 2½-mile electric railway in Miami.

Alexandria, La.—The Southern Traction & Power Co. has applied to the Council for a franchise to extend its lines on 13th and 16th Sts. to the city limits. Ernest Boehme, Alexandria, is Vice-Pres. and Gen. Mgr. Noted July 9.

Shreveport, La.—The Shreveport Traction Co. has been granted franchises to construct and operate an electric railway in Caddo Parish. W. A. Sullivan, Shreveport, is Gen. Mgr. and Pur. Agt.

Nashville, Tenn.—The Nashville Traction Co. has applied to the City Council for a franchise to construct an electric railway along Murfreesboro Pike in Nashville. A. E. Beazley, Nashville, is Pur. Agt.

Dayton, Ohio—Plans are being prepared by the Dayton Street Ry. Co. for the extension of its line from Philadelphia Drive to Fort McKinley. W. L. Smith, Dayton, is Gen. Mgr. and Supt.

Hamilton, Ohio—The Richmond & Hamilton Traction Co. has been incorporated to construct an electric railway from Hamilton, Ohio, to Richmond, Ind. The directors are: F. C. Gillen, Eugene Purtelle and E. Leslie Cole.

Pomeroy, Ohio—The Ohio River Electric Co. has been incorporated to operate an electric railway. The incorporators are: I. L. Oppenheimer, J. W. Wolfe, D. W. Hennessy, George Wanger and W. H. Plantez.

Springfield, Ohio—The Springfield Street Ry. Co. contemplates the extension of its lines from Springfield to Ridgewood, a suburb. George C. Towle, Dayton, is Gen. Mgr.

Pontiac, Mich.—The Detroit, Pontiac & Owosso Ry. Co. has been organized to construct an electric railway to connect Pontiac, Owosso, Clarkston, Detroit and Fenton. Oliver Lau, Detroit, is interested.

Alton, Ill.—The Alton & Jacksonville Ry. Co. has been incorporated to construct and operate an electric railway from Alton to Jacksonville. The incorporators are: B. P. Bergold, Louis W. McIntyre, James S. McClellan, Harry Okin, Jerome J. Cermak and Frank L. Butler.

Champaign, Ill.—Plans are being prepared by the Urbana & Champaign Ry., Gas & Electric Co. for the extension of its lines to the new shops of the Illinois Central Ry. Co., about two miles. H. J. Pepper, Champaign, is Gen. Supt.

Evanston, Ill.—The Evanston Ry. Co. contemplates the extension of its lines on the west side of the city. Charles F. Speed, Evanston, is Vice-Pres. and Gen. Mgr.

Muscatine, Iowa—Plans are being considered by the Interstate Bridge & Terminal Co. for the construction of an electric railway from Muscatine, Iowa, to Galesburg, Ill. The company will build a bridge across the Mississippi River.

Brenham, Tex.—S. D. W. Low and associates are interested in the construction of an interurban electric railway from Brenham to Independence. A power station will be constructed at Brenham.

Denton, Tex.—The Tarrant Traction Co., which was recently organized by the Stone-Webster interests, Boston, Mass., has applied to the City Council of Denton for a franchise for its proposed interurban electric railway in that city. The company will construct an interurban line between Fort Worth and Denton. Noted June 18.

Houston, Tex.—The City Council has passed an ordinance requiring the Houston Electric Co. to construct a double-track railway on Travis St., from Capitol to Dallas Ave.; on Dallas Ave., from Travis to Fannin St., and on Fannin St., from Dallas to Franklin Ave., so that the company will have a continuous belt line through the business district of the city. David Daly is Gen. Mgr.

Twin Falls, Idaho—An electric railway from Twin Falls to Castleford and Hagerman is being projected by the Idaho Pacific R.R. Co. A. L. Swim, Twin Falls, is Pres.

Salt Lake City, Utah—The Salt Lake & Utah R.R. Co. is considering the extension of its line from Salt Lake City to Saratoga Springs, Utah. R. M. Mitchell, Salt Lake City, is Pur. Agt.

Victoria, B. C.—The British Columbia Electric Ry. Co. has applied to the City Council for a franchise to double track its line on Esquimalt Road, from Dundas to Catherine St. A. T. Goward, Victoria, is Local Mgr.

LIGHT, HEAT AND POWER

Boston, Mass.—The State Armory Commission has received the following bids for heating and ventilating and the electrical work in the armory to be erected in Allston: The Bay State Heating Co., at $34,990, made the lowest offer for heating and ventilating. Other bids were: The Merrill Co., $36,417; J. L. Hern, $39,200; Huey Bros., $34,417; Larky McMurrer, $37,484; Lynch & Woodward, $37,870; C. H. Sanborn, $36,330; Braman, Dow & Co., $41,645; Ingalls & Hendriksen, $38,467; Commonwealth Heating Co., $37,500; J. J. Hurley, $36,248; Power Heating & Ventilating Co., $36,231; Pierce & Cox, $36,282; Isaac Coffin, $77,780; Jennison Co., $38,323, and the Cleghorn Co., $38,700.

For the electrical work the lowest estimate was made by the Lord Electric Co. at $33,400. Other bids were: Clark & Mills, $35,474; E. C. Lewis, $36,849; Hixon Electric Co., $36,971; Barnes, Pope Electric Co., $34,038; Carlisle Conner Co., $34,487.

Holyoke, Mass.—Bids will be received until 2 p.m., Aug. 19, by W. B. Reid, Arch., for heating and ventilating apparatus in the new annex to the City Hall which is now being built.

Holyoke, Mass.—The Holyoke Street Ry. Co. has purchased a site on Pleasant St. in Mill Valley, on which to build a power house to supply energy for the Sunderland and Amherst division. Louis D. Pelissier is Gen. Mgr.

West Springfield, Mass. — The Ramapogue Ice Co. has plans completed for building a dam and installing three water wheels in the Westfield River. Bliss & Lavalle, Springfield, prepared the plans and will receive bids for the work. Noted July 23.

East Providence, R. I.—A committtee has been appointed to make arrangements with the public utility corporations for placing underground the electric wires on the main streets. Joseph D. Fitts is City Engr.

Providence, R. I.—The Narragansett Electric Lighting Co. contemplates rebuilding the turbine room of its generating station some time within the next few months. W. T. Oviatt is Gen. Supt.

Bridgeport, Conn.—The power house at the plant of the Farist Steel Co., 137 East Main St. will be rebuilt. The building will be of brick and steel, 55x78 ft.

★Albany, N. Y.—(Official)—Bids will be received until 3 p.m., Aug. 17, by the State Hospital Commission for the construction of a power house, boilers, equipment and steam conduit, plumbing, electric equipment and underground electric conduit at the Long Island State Hospital, Brooklyn, N. Y. J. H. B. Hanify is Secy. State Hospital Comn. For further details, see advertisement under Contracts To Be Let.

Canaan, N. Y.—The Lebanon Power & Lighting Co., Canaan, plans to build a power plant in Canaan, on the outlet of Queechy Lake, to supply energy to Canaan, New Lebanon Springs and West Lebanon. The equipment of the plant will include: One 225-hp. Atlas boiler, one 175-hp. Corliss engine, two Leffel water wheels (135-hp.), one 150-kw. General Electric and one 125-kw. Fort Wayne generator (each three phase, 60-cycle, 2300-volts), General Electric switchboard equipment and Duncan transformers. O. C. Schmoyer, Greenville, Penn., is Engr.-in-Charge.

+Ithaca, N. Y.—The Ithaca Traction Corporation has awarded the contract for remodeling two electric plants to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn., at $87,000.

+New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for additions and repairs to the electrical equipment of Public Schools, 106 and 184, Borough of Manhattan, has been awarded to the COMMERCIAL CONSTRUCTION CO., 8 Bridge St., New York, at $5920.

+(Borough of the Bronx)—(Official)—The lowest bid for installing heating and ventilating apparatus in Public School 56, East 207th St., between Hull and Decatur Aves., Borough of the Bronx, was that of the E. Rutzler Co. at $25,935. The contract for installing temperature regulation in this building was awarded to the E. RUTZLER CO. at $22,111.

+(Borough of Queens)—(Official)—The lowest bid for installing heating and ventilating apparatus in new Public School 96, at Rockaway Road and Lincoln Ave., South Ozone Park, Fourth Ward, Borough of Queens, was that of the E. Rutzler Co., at $25,890. The contract for installing temperature regulation in School 96 was awarded to WELLS & NEWTON, Ave. B and 17th St., New York, at $21,889.

The following are the lowest bids received for installing electrical equipment in various school buildings: School 56; Borough of the Bronx, T. Frederick Jackson, Inc., $5435; School 95, Borough of Queens, Eugene Frank, $6763; School 96, Borough of Queens, Matthew Construction Co., $5625. For alterations and repairs to the heating and ventilating apparatus in Public School 12, Borough of Queens, the lowest bid was that of the James Curran Mfg. Co. at $5389.

(Boroughs of Brooklyn and Queens)—(Official)—Bids will be received until 2.30 p.m., Aug. 14, by the Department of Public Charities, Municipal Bldg., for the installation of new steam lines for carrying exhaust steam from the power house of the Kings County Hospital, Brooklyn. John A. Kingsbury is Comr. of Charities.

Palmyra, N. Y.—The Central New York Gas & Electric Co. is considering the extension of its transmission lines from Palmyra to Walworth to supply electricity in that village, and also to residents along the line. William Clark is Local Mgr.

Syracuse, N. Y.—It is reported that the power plant for the Onondaga County Tuberculosis Sanitarium will cost about $35,000. The equipment will include boilers, engines, heating apparatus, pumps, telephone switchboard, etc. Noted July 30.

Perth Amboy, N. J.—The City Council has authorized Samuel J. Mason, City Engr., to prepare an estimate of the cost of installing a municipal electric-light plant in Perth Amboy.

Philadelphia, Penn.—Bids are being received by John T. Windrim, Arch., Commonwealth Bldg., Philadelphia, for the construction of a one-story brick and concrete power house at 20th St. and Oregon Ave. for the Stephen Girard Estate. It will be 67x88 ft.

Oak Ridge, N. C.—It is reported that the Oak Ridge Institute contemplates the installation of a power plant to furnish electricity for the institution, and also for the town.

Florence, S. C.—It is reported that the Florence Electric & Utility Co. will double its capacity for furnishing light and power. F. G. Godfrey is Mgr. and Gen. Supt.

Detroit, Fla.—The Detroit Ice, Light & Power Co., recently incorporated with $25,000 capital, will build an electric-light and power plant.

Ocala, Fla.—An election will be held Sept. 14 to vote on the question of a bond issue of $75,000 for constructing and equipping a new electric-light system.

Henderson, Ky.—The boiler house of the municipal electric-light plant, which was recently damaged by a cyclone to the extent of about $10,000, will be rebuilt at once. L. P. Hite is Supt.

+Nottingham, Ohio—The contract for the construction of a power plant for the Ursuline Convent, Nottingham, has been awarded to the C. A. CARSON CO., 6523 Euclid Ave., Cleveland, at about $10,000.

Warren, Ohio—The Trumbull Public Service Co. plans to spend $125,000 in improving its plant within the next few months. Two turbines have just been purchased from the General Electric Co., and a 600-hp. steam boiler, equipped with motor-driven coal handling apparatus, will be installed. G. E. Jones, Warren, is Vice-Pres. of the company.

Battle Creek, Mich.—The Kellogg Toasted Corn Flakes Co. is having plans prepared for the erection of a new power plant, estimated to cost $50,000. M. J. Morehouse, 343 South Dearborn St., Chicago, Ill., is the Arch.

+Flint, Mich.—The Board of Managers of Hurley Hospital has awarded the contract for the construction of a power plant to TAYLOR & MALISKEY. The power plant and hospital laundry will occupy the same building. Noted June 11.

✚Sault Ste. Marie, Mich.—The Edison Sault Electric Co. has awarded the contract for improvements to its power plant to MARSHALL N. HUNT at about $17,000. The work includes an addition to the power house and the installation of three new turbines, increasing the output by 1000-hp. Noted Apr. 2.

Sullivan, Ill.—The city has voted $35,000 in bonds for the improvement of the municipal electric-light plant and water works. Hugh Hoke is Supt.

El Dorado, Wis.—Plans are being prepared for the establishment of a hydro-electric plant for the Wisconsin Power, Light & Milling Co. at El Dorado. An auxiliary steam plant will be equipped. Oscar A. Huelsman, Fond du Lac, is Pres. of the company.

✚Wauwatosa, Wis.—The contract for the construction of a new power plant for the Milwaukee County Tuberculosis Sanatorium at Wauwatosa has been awarded to the AMERICAN CONSTRUCTION CO. Noted June 18 and July 16.

Alvord, Iowa—The city has voted in favor of a bond issue for the construction of a municipal electric-light plant.

Aurelia, Iowa—An election will be held Aug. 17 for the purpose of voting for a bond issue of $7000 to be used for the construction of a municipal electric-light plant. J. C. Nelson is City Clk. Noted July 23.

Estherville, Iowa—Bids will be received until 9 a.m., Aug. 11, by N. G. Egbert, City Clk., for improvements to the municipal electric-light plant to include: A radial brick or reinforced concrete stack, 150 ft. high, 5 ft. in diameter; an industrial trolley coal car; 300-hp. boiler installation; mechanical stokers, 400-hp. engine; generator, switchboard, remodeling pole line and wiring system. J. F. Druar, Commercial Bldg., St. Paul, Minn., is Consult. Engr.

Barnesville, Minn.—Bids will be received until Aug. 15, by the Board of Education for all heating, plumbing, ventilation and electrical work in a new public school building in Barnesville. E. F. Broomhall, 710 Alworth Bldg., Duluth, Minn., is Arch.

Elk River, Minn.—It is reported that F. D. Waterman is considering plans for installing an electric lighting and power plant in Elk River.

Adams, Neb.—The citizens have voted to issue bonds for $13,500 to be used for the installation of a municipal electric-lighting system. Johnson & Johnson, Falls City, Neb., are Engrs.,-in-Charge. Noted July 16.

Sidney, Neb.—It is reported that bids are being received for the installation of a municipal electric-lighting system and district steam-heating plant.

Green River, Wyo.—An election will soon be held for the purpose of voting on the question of issuing $20,000 in bonds, the proceeds of which will be used for the construction of a municipal electric-light plant.

Fort Benton, Mont.—Bids will be received until Aug. 17, by John F. Murphy, City Clk., for the purchase of $17,000 of bonds, the proceeds to be used for the construction of an electric-light plant. Noted July 9.

Excelsior Springs, Mo.—The Excelsior Springs Water, Gas & Electric Co. has applied to the Public Service Commission for permission to issue $52,000 in bonds for general improvements to its system. S. W. Henderson is Vice-Pres. and Mgr.

Montrose, Mo.—An election was held July 21, at which the question of a bond issue for the purpose of building a municipal electric-light plant was carried.

★Gonzales, Tex.—(Official)—Bids will be received until noon, Aug. 12, by Frank S. Taylor, Engr.-in-Charge, Austin, Tex., for the construction of a reinforced concrete dam on the Guadalupe River. See advertisement under Contracts T. Be Let.

✚Longview, Tex.—(Official)—A contract has been awarded to the ROACH MANINGAN PAVING CO., Fort Worth, Tex., for the construction of a new power and generator house, installing the equipment and building the water tower at Longview.

Guthrie, Okla.—A special election will be held Aug. 11, to vote on the question of issuing $250,000 in bonds for the installation of a municipal electric plant. R. N. Dunham is City Clk.

Fort Collins, Colo.—The Great Western Granite Mfg. Co., For Collins, will probably ask bids in the early fall for the construction of a power plant, 32,000 ft. of 26-in. pipe line and a finishing plant.

Tempe, Ariz.—The City Council has engaged L. G. Knipe, Phœnix, Ariz., to prepare plans for the construction of a municipal lighting and power plant. Frank Thomas is City Clk.

Danville, Wash.—The Austin-McCain Co., Spokane, Wash., plans to construct a transmission line from Danville to Republic, Wash., a distance of 30 miles. The estimated cost is $30,000.

Oroville, Wash.—The Okanogan Valley Electric Co., has recently taken over the holdings of the Similkameen Power Co., including its electric-power site and plant at Similkameen Falls. The new company will make extensive improvements to the plant, including the installation of electrical machinery to develop 2000 hp.

Pe Ell, Wash.—The Central Power Co. plans to build a concrete dam at Pe Ell to cost about $18,000. L. A. Webb, Aberdeen, Wash., is Pres. and Mgr.

Hillsboro, Ore.—The plant of the Hillsboro Power & Investment Co. was recently destroyed by fire. A new plant, estimated to cost about $25,000, will be built. O. B. Gates, Hillsboro, is Gen. Mgr.

San Francisco, Calif.—The Pacific Gas & Electric Co. is having plans prepared by Frederick H. Meyer, Arch., 742 Market St., for the construction of a sub-station at 23rd and Georgia Sts. Estimated cost, $40,000.

Edmonton, Alta.—It is reported that Sanderson & Porter, Engrs., 52 William St., New York, N. Y., are interested in the development of a hydro-electric power plant on the Fraser River near Edmonton. About $3,000,000 will be spent.

BRIDGES

Ashland, N. J.—Bids will be received until 11 a.m., Aug. 10, by the Board of Chosen Freeholders of Camden County, Camden, for rebuilding the Eberts Bridge near Ashland. Fred W. Gercke is Chn. of the Bridge Com.

✚Flemington, N. J.—The Board of Chosen Freeholders of Hunterdon County has awarded the contract for the construction of a bridge over the Rockaway River at Hall's Mills, on the Whitehouse-New Germantown Road to the DOVER BOILER WORKS at $4800.

Morristown, N. J.—Bids will be received until Aug. 10, by the Board of Chosen Freeholders of Morris County for the construction of two reinforced concrete bridges, one over the Rockaway River, and the other over a branch of the same river on the Denville and Pine Brook Road about one mile west of Pine Brook.

★✚New Gretna, N. J.—(Official)—The Board of Chosen Freeholders of Burlington County. Mount Holly ,has awarded the contract for the construction of the Bass River Bridge at New Gretna to the RENNELL CONSTRUCTION CO., 30 Church St., New York, N. Y., at $16,350. Other bidders were: Kelley-McFeeley Co., Camden, $19,370; Bridgeton Construction Co., Bridgeton, $19,000; Penn Bridge Co., Beaver Falls, Penn., $18,800; Medford Concrete Co., Medford, $17,200; A. M. & H. Mathis, New Gretna, $17,400. Noted July 16.

★Butler, Penn.—(Official)—Bids will be received by H. O. Carson, City Engr., until noon, Aug. 25, for the construction of the Wayne St. Viaduct, across the tracks of the Baltimore & Ohio and Buffalo & Lake Erie railroads. For details see advertisement under Contracts to Be Let. Noted July 16.

✚Easton, Penn.—(Official)—The Commissioners of Northampton County have awarded the contract for the construction of a reinforced concrete bridge over Monocacy Creek, Moore Township, to WILLIAM H. BARRALL, Bath, Penn. Noted July 30.

Greenville, Penn.—(Official)—Bids will be received until noon, Aug. 17, by the Commissioners of Mercer County, Mercer, for erecting the superstructure of a bridge over the Shenango River on College Ave., Greenville. H. G. Comstock is Clk. of the Comrs.

Mortonville, Penn.—Bids are being received by William Hunter, Ch. Engr., Philadlephia & Reading Ry., Reading Terminal, Philadelphia, for the construction of a reinforced-concrete bridge at Mortonville. The estimated cost is $15,000.

Norristown, Penn.—(Official)—Bids will be received until 11 a.m., Aug. 24, by the Commissioners of Montgomery County for the following: Construction of a reinforced-concrete bridge over Tacony Creek, Glenside; a three-arch stone bridge over Mingo Creek, Upper Providence Township; repairing the East Airy St. Bridge, Norristown, and repairing a bridge east of Gwynedd Valley Station, Lower Gwynedd Township. John N. Jacobs is County Controller.

Simpson, Penn.—The Commissioners of Lackawanna County, Scranton, the Scranton Ry. Co., the Delaware & Hudson Co., the Erie R.R. and the New York, Ontario & Western Ry. plan the construction of a viaduct in Simpson at the foot of what is known as "Turkey Hill." The viaduct is estimated to cost about $68,000, and the expense will be divided proportionately among the beneficiaries.

✚Somerset, Penn.—(Official) — The Commissioners of Somerset County have awarded the contract for the construction of three small bridges to W. G. FERNER, Somerset, at a total of $4922, and $9 per cu.yd. for extra concrete; the contract for two bridges was awarded to WILLIAM ESCHERICK, Kimmelton, Penn., at $2830. The award of the Flougherty Run Bridge was held over until Aug. 3. Noted July 23.

Norfolk, Va.—(Official)—A franchise has been granted to the Norfolk-Berkley Bridge Corporation for the construction of a bridge over the Eastern Branch of the Elizabeth River, between Berkley and Norfolk. The estimated cost is $350,000. George Dodge, 321 Bank of Commerce Bldg., Norfolk, is Designing Engr. J. O. Wiggs is Chn. of Bridge Com.

Winston-Salem, N. C.—(Official)—Bids will be asked, as soon as plans are completed, for the construction of a bridge, 900 ft. long, north of Conrads Ferry. The cost is estimated at $25,000 and will be divided between Forsyth and Yadkin Counties. J. N. Ambler is Engr.-in-Charge. E. T. Mickey, Winston-Salem, is Chn. of Bridge Com. Noted July 23.

Augusta, Ga.—Plans are being prepared for the construction of a concrete bridge across Butler's Creek on the Louisville Road, replacing the present wooden one, which is 300 ft. long.

Jacksonville, Fla.—Bids will be received until Aug. 10 by the Committee on Public Works of the Board of Bond Trustees for the construction of a reinforced concrete bridge over Hogan Creek at Main St. George M. Powell is Chn. of the Bd.

Jacksonville, Fla.—The Board of Commissioners of Duval County has adopted a resolution providing for the engaging of engineers to prepare plans for the construction of a bridge over the St. Johns River starting from the Broad St. Viaduct, and running parallel to the bridge of the Florida East Coast Ry. The bridge will be about 60 ft. wide, and will have a draw span of at least 320 ft. Noted July 9.

✚Selmer, Tenn.—The County Court of McNairy County has awarded the contract for the construction of 12 bridges to the LARIMER & BURGET CO., Memphis, and for 12 bridges to the MEMPHIS BRIDGE CO.

✚Louisville, Ky.—The Fiscal Court of Jefferson County has awarded the contract for the construction of a reinforced-concrete bridge over Floyd's Fork to PIERCE BUTLER, at $12,972.

✚Akron, Ohio—The City Council has awarded the contract for reflooring the Mill St. Viaduct to S. W. PARSHALL at $5300. Noted July 23.

Athens, Ohio—Bids will be received until Aug. 15, by the Board of Commissioners of Athens County, for the construction of the superstructure of a bridge over Federal Creek, Rome Township.

Bucyrus, Ohio—(Official)—Bids will be received until noon, Aug. 7, by the Board of Commissioners of Crawford County for the construction of two concrete abutments, superstructure and approaches of the Smith Bridge over the Sandusky River, Sandusky Township. H. A. Biebighauser is County Audr.

Caldwell, Ohio—Bids will be received until Aug. 8, by M. C. Johns, Audr. of Noble County, for the construction of the superstructure of a 96-ft. steel bridge over the west fork of Duck Creek.

Cleveland, Ohio—Press reports state that T. P. McCourt, Akron, Ohio, the lowest bidder, at $438,000, for the construction of the Brooklyn-Brighton Bridge, has withdrawn his bid. Noted June 25 and July 30.

London, Ohio—(Official)—Bids will be received until noon. Aug. 19, by the Joint Board of County Commissioners of Madison and Franklin Counties for the construction of the substructure, steel superstructure and approaches of a bridge over Big Darby Creek on the Fuller Mill Road, on the line between the two counties. H. M. Chaney is Audr. of Madison County. H. L. McCafferty is Surv. of Madison County. Walter Brown, Columbus, is Bridge Engr. of Franklin County.

Indianapolis, Ind.—Plans have been completed and bids will be asked at once for a steel arch across the White River at West New York St., for which an appropriation of $150,000 has been made. W. T. Patten is County Audr.

Lansing, Mich.—(Official)—Bids will be received until noon, Aug. 12, by Frank F. Rogers, State Highway Comr., for the construction of an 85-ft. concrete arch over the Michigamme River, Mansfield Township, Iron County. A. L. Burridge, Crystal Falls, is County Engr. of Iron County.

Chicago, Ill.—(Official)—Bids will be received until 11 a.m., Aug. 7, by Lawrence E. McGann, Comr. of Pub. Wks., for the construction of the superstructure of a double-leaf trunnion bascule bridge over the North Branch of the Chicago River at Belmont Ave. Bids for the substructure of this bridge were received Aug. 5.

It is reported that Armour & Co., Union Stockyards, will build a steel viaduct to cost about $5000. R. C. Clark is Engr.

New London, Wis.—Bids will be received until Aug. 18 by the city for the construction of a concrete bridge over the Embarass River.

★Iowa City, Iowa—(Official)—Bids will be received until 2 p.m., Aug. 21, by the Board of Supervisors of Johnson County for removing the old bridge and building a reinforced concrete structure over the Iowa River at Burlington St., Iowa City. W. J. Freeman is County Audr. For further details, see advertisement under Contracts To Be Let.

Keokuk, Iowa—Press reports state that the rebuilding of the Keokuk and Hamilton Bridge will be begun as soon as the plans can be completed and the contracts awarded. Theodore Gilman is Secy. of the Keokuk & Hamilton Bridge Co. Noted May 28 and June 18.

✚Marshalltown, Iowa—The Board of Supervisors of Marshall County has awarded the contract for the construction of five concrete bridges to the IOWA BRIDGE CO., Des Moines, at $5465, piling 50c. per ft. and extra concrete at $14 per cu.yd.

✚Mason City, Iowa—(Official)—The Board of Supervisors of Cerro Gordo County has awarded the contract for the construction of a steel bridge in Falls Township to WILLIAM HENKEL, Mason City. Noted July 23.

Atchison, Kan.—The City Clerk has been instructed to advertise for bids for the construction of a reinforced concrete bridge, to cost about $10,000, over White Clay Creek, at Fourth St. Frank Altman is City Engr. Noted July 16.

Cottonwood Falls, Kan.—(Official)—Bids will be received until noon, Aug. 8, by the Board of Commissioners of Chase County for the construction of a reinforced concrete bridge over the Cottonwood River in Cottonwood Falls. C. D. Yeager is Chn. of Comrs. W. B. Penny is County Clk.

✚Independence, Kan.—(Official)—The Commissioners of Montgomery County have awarded the contract for the construction of bridges and culverts in the county to the WESTERN BRIDGE CO., Harrisonville, Mo., at $6623. Other bidders were: Leslie Hudson, $7067 and Frank Good, $6638. Noted July 23.

★✚Kansas City, Kan.—The Commissioners of Wyandotte County have awarded the contract for the construction of the 23d St. Traffic Way on the Kansas side of the Kaw River to the KANSAS CITY STRUCTURAL STEEL CO., at $479,700. Noted June 18 and July 9.

Neodesha, Kan.—Neodesha Township, Wilson County, has had plans prepared by A. R. Losh, Asst. State Highway Engr., for the construction of two bridges. The estimated cost is $13,000.

✚Bozeman, Mont.—The Commissioners of Gallatin and Jefferson Counties have awarded the contract for the construction of a bridge across the Jefferson River to the MINNEAPOLIS STEEL & MACHINERY CO. at $9493.

Deer Lodge, Mont.—The Commissioners of Powell County plan the construction of two steel bridges, one over the Big Blackfoot River and the other over North Fork. John E. Manley is Chn. of Comrs.

Glasgow, Mont.—Bids will be received until Sept. 7, by the Commissioners of Valley County, for the construction of two steel bridges, one over Willow Creek and the other over Rock Creek. J. W. Dale is County Clk. and Recdr.

✚Lewistown, Mont.—The Commissioners of Fergus County have awarded the contract for the construction of a bridge over Sage Creek to the SECURITY BRIDGE CO., at $8000.

Malvern, Ark.—Bids have been asked by the County Court of Hot Spring County for the construction of a bridge across the Ouachita River, 2½ miles south of Friendship on the Brown Springs Road, and for several smaller bridges across Deroche Creek, Trager Creek and Prairie Bayou. The estimated total cost is $20,000. B. C. Fitzhugh is County Judge.

Searcy, Ark.—Bids will be received until Aug. 10 by the County Court of White County, Searcy, for the construction of four bridges. J. B. Mitchell is County Judge.

Houston, Tex.—(Official)—Bids will be received until 10 a.m., Aug. 10, by H. L. Washburn, Audr. of Harris County, for the construction of two concrete bridges on the Westheimer-Alief Road, and for the construction of two concrete culverts on the Washington County Road.

Lampasas, Tex.—At an election held July 18, the citizens of Lampasas County voted in favor of a bond issue of $14,000 for building four bridges in the county.

Santa Fe., N. M.—Bids will be received, until Aug. 29, by the State Engineer for the construction of a bridge over the Rio Grande River at Arrey. It will be 465 ft. long, pony truss, pile foundation.

Phoenix, Ariz.—Bids will be asked at once by Lamar Cobb, State Engr., for the construction of a concrete bridge, about 136 ft. long, over Canyon Diabolo, Coconino County. Noted May 28.

Plans have also been prepared for concrete bridges over the Milky and Beaver dam washes in Apache County.

Buckley, Wash.—(Official)—Bids will be received until 2 p.m., Aug. 10, by the Board of Commissioners of King County, Seattle, for the construction of concrete piers for the Buckley Bridge. Byron Phelps is Clk. of the Bd. Noted July 30.

✚Conconully, Wash.—The Commissioners of Okanogan County have awarded the contract for the construction of a draw bridge across the Okanogan River at Malott to D. S. GAMBLE, Brewster, Wash., at about $10,000. Noted Feb. 26, Apr. 9 and Apr. 16.

Ritzville, Wash.—(Official)—Bids will be received until Aug. 24, by the commissioners of Adams County for the construction of three reinforced concrete bridges, 100-, 70- and 30-ft. spans respectively. F. R. Hewett is County Const. Engr.

Snoqualmie, Wash.—Bids will be received until Aug. 17, by the Commissioners of King County, Seattle, for the construction of a bridge over Tokul Creek, near Snoqualmie. Byron Phelps is Clk, of Comrs.

✚Portland, Ore.—The commissioners of Multnomah County have awarded the contracts for building a bridge across the Sandy River to GEORGE W. GRIFFIN, Seattle, Wash., for the foundation and erection of the superstructure at $10,699, and to the PORTLAND BRIDGE CO., Portland, to supply the steel at $10,150. Noted July 16.

Salem, Ore.—The Commissioners of Marion and Polk Counties are interested in a project to build a $100,000 bridge. Henry L. Bowlby, State Highway Engr., will prepare plans and estimates for the work.

✚Alhambra, Calif.—The City Trustees have awarded the contract for the construction of a reinforced concrete bridge over Mill Creek at Main St. between Alhambra and San Gabriel to MESMER & RICE, Story Bldg., Los Angeles, at about $30,000. Noted July 2.

✚Madera, Calif.—The Board of Supervisors of Madera County has awarded the following contracts for bridge construction: To JAMES WILLISON, Rockaway Beach, Calif., at $5341 for bridge over Cottonwood Creek near Patterson, at $11,984 for bridge over Berenda Slough south of Chowchilla, and at $5693 for a bridge over Cottonwood Creek nine miles northeast of Madera; to the PACIFIC COAST CONSTRUCTIION CO., Fresno, at $14,641 for a bridge over Ash Slough at Chowchilla, at $2950 for a bridge over the slough south of Berenda, at $5700 for a bridge over Cottonwood Creek south of Borden, at $5900 for bridge over Fine Gold Creek 30 miles northeast of Madera and at $6290 for a bridge over Walker Creek 35 miles northeast of Madera. All these structures will be of reinforced concrete. Noted July 16 and 23.

Merced, Calif.—Bids will be received until 10 a.m., Aug. 28, by the Board of Supervisors of Merced County for the construction of a steel bridge, concrete floors and abutments, over the Merced River. P. J. Thornton is Clk. of the Bd.

Oroville, Calif.—The Butte County Board of Supervisors has authorized the construction of two concrete bridges across Honcut Creek, between this city and Marysville. M. C. Polk, Chico, is County Engr.

✚Palo Alto, Calif.—A contract has been awarded by the City Trustees of Palo Alto and the Board of Supervisors of San Mateo County for the construction of a concrete bridge on the Middlefield Road, to H. W. OTTO, San Jose, Calif., at $7846.

Riverside, Calif.—The Board of Supervisors of Riverside County has had plans prepared for the construction of a reinforced concrete bridge on the Riverside-Crestmore Road. It will be about 500 ft. long.

Sacramento, Calif.—The following bids were received, July 20. by the State Highway Commission for the construction of the Yolo Basin Viaduct: Sound Construction & Engineering Co., San Francisco, $245,309; Van Sant-Houghton Co., San Francisco, $243,877; Graff Construction Co., Seattle, Wash., $239,704; Mahoney Bros., San Francisco, $260,868. Noted June 25 and July 9.

✚The contract for the Yolo Basin Viaduct has been awarded to the GRAFF CONSTRUCTION CO., Seattle, Wash., at $239,704, on condition that the State will furnish the material used in the construction work.

Walnut Grove, Calif.—Bids will be received until 2 p.m., Aug. 20, by the Board of Supervisors of Sacramento County, Sacramento, for the construction of a bridge across the Sacramento River at Walnut Grove. E. F. Pfund is Clk. of the Bd.

✚Yuba City, Calif.—The Board of Supervisors of Sutter County has awarded the contract for the construction of a reinforced concrete bridge across Butte Slough, near Meridian, to the BLAKE BROS. CO., Oakland, at $68,800. Noted June 25.

✚**Toronto, Ont.**—The Board of Control has awarded the contract for the construction of the Strachan Ave. Bridge to WILSON, TOWNSEND & SAUNDERS, 79 Spadina Ave., Toronto, at about $35,000. Noted June 4 and June 18.

St. Boniface, Man.—The joint bridge committee of the City Councils of St. Boniface and Winnipeg has recommended that the contract for the construction of the superstructure of the Provencher Ave. Bridge be awarded to the Manitoba Bridge & Iron Works, Winnipeg, at $253,004. A Strauss trunnion bascule type of bridge is recommended. Noted June 18.

WATER SUPPLY—IRRIGATION

✚**Henniker, N. H.**—The contract for water pipe has been awarded to the U. S. PIPE & FOUNDRY CO., Bristol, Conn., at $22.60 per ton. The KENNEDY VALVE MFG. CO., was awarded the contract for valves and hydrants. W. S. Johnson, Boston, Mass., is the Engr. Noted July 16.

Boston, Mass.—The following bids were received July 28, by the Metropolitan Water and Sewerage Board, for laying 20- and 24-in. water-pipe in Boston, Milton and Quincy: John J. Evans, Lawrence, $15,202; Michael Russo & Son, Boston, $16,225; Andrew M. Cusack, Boston, $16,278; John E. Palmer, Boston, $16,584; John T. Shea, Jr., Boston, $16,664; John Guarino, Boston, $17,509; Joseph H. Ferguson, Boston, $18,59; M. J. McCawley, Boston, $18,771; A. Baruffaldi, Somerville, $19,167; M. di Sisto & Co., Everett, $19,328; Thomas Bruno, Boston, $19,329; Moore & Co., Boston, $21,710; Daniel M. Riggs & Co., Boston, $22,010; C. J. Jacobs Co., Boston, $25,758; H. Nawn Contracting Co., Boston, $27,890. Dexter Brackett, 1 Ashburton Place, is Ch. Engr. Noted July 25.

All bids received July 27 by the Metropolitan Water and Sewerage Board for the construction of a steel tank on Bellevue Hill have been rejected. New bids will be received until Aug. 7. Noted July 23.

✚★**Duxbury, Mass.**—(Official)—The Water Commissioners have awarded contracts for the construction of a water system as follows: DONALDSON IRON CO., at $32,718, for furnishing c.i. pipe; LIGHT, HEAT & POWER CORPORATION, at $17,537, for laying pipe; ARTHUR H. BAILEY, at $3482, for constructing a pumping station; R. L. WHIPPLE CO., at $7115, for constructing a concrete reservoir. Bids were received July 23. Noted July 16.

✚★**North Adams, Mass.**—(Official)—Bids were received July 27, by the Board of Public Works, for constructing an earth dam and reservoir, as follows: MIDDLESEX CONTRACTING CO., Putnam, Conn., $87,750 (awarded contract); Framingham Contracting Co., South Framingham, $88,406; Hanscom Construction Co., Boston, $103,717; W. T. Ryan Contracting Co., Hartford, Conn., $123,600; T. Stuart & Sons Co., Newton, $125,637; Davis & Brock, Brookline, $129,187; Mason, Hilton & Co., New York, $129,375; D. O'Connell Sons, Holyoke, $131,525; H. P. Converse & Co., Boston, $132,436; Light, Heat & Power Corporation, Boston, $149,207; P. J. Kennedy & Co., Holyoke, $159,675. Noted July 16.

★**Webster, Mass.**—(Official)—Bids will be received by the Board of Water Commissioners until Aug. 10 for furnishing and laying about 8000 ft. of 20-in. c.-i. pipe and about 5000 ft. of 10-, 8- and 6-in. pipe; also for constructing a covered reinforced concrete reservoir, having a capacity of 1,600,000-gal. F. L. Fuller, 12 Pearl St., Boston, is the Engr. Plans on file at the office of Engineering News. Noted July 9.

★**Hartford, Conn.**—(Official)—Bids will be received by the Board of Water Commissioners until 3 p.m., Aug. 19, for Contract 7, constructing a gravel surface road south of the Nepaug Reservoir. Caleb Mills Saville is Ch. Engr. Noted July 30.

Waterbury, Conn.—Plans are being prepared by Robert A. Cairns, City Engr., for the installation of a sterilizing system in connection with the water supply from the West Branch reservoir.

Albion, N. Y.—At a recent election the citizens voted to purchase the plant of the Albion Water Co. and to spend about $65,000 for the improvement of the plant and system.

★**Auburn, N. Y.**—(Official)—Bids will be received by the Water Board until Aug. 21 for two return-tubular boilers, 80- and 100-hp., respectively. J. W. Ackerman is Ch. Engr.

Barker, N. Y.—The installation of a water system is under consideration.

✚★**Gilbertsville, N. Y.**—(Official)—The contract for the construction of an earth dam, diversion channel and pipe lines has been awarded to the SUBURBAN ENGINEERING CO., 15 West 38th St., New York, N. Y., at $23,958. List of bids noted July 23.

✚★**Hudson, N. Y.**—(Official)—Bids were received by Henry M. James, City Clk., July 22, for water proofing the old wall and constructing a 6-in. reinforced-concrete cut-off wall on the upstream face of the storage reservoir dam at Churchtown, as follows: KEEPS-DRY CONSTRUCTION CO., 145 West 18th St., New York, N. Y., $11,554 (awarded contract); Thomson Wooster Co., Walden, $12,892; Drake & Deane, Inc., Buffalo, $12,914; A. M. Harper, Inc., Newburgh, $12,098; Barzaghi-Vought Co., New York, $13,955; Mason, Wilton Co., New York, $16,962. Noted June 25.

✚**Niagara Falls, N. Y.**—The Water Board has awarded a contract to SHEPARD & CALLAHAN, at $41,355 for laying water mains in various streets.

North Tonawanda, N. Y.—The installation of a filtration plant, instead of a sewage disposal plant, has been recommended to the Board of Public Works by T. P. C. Barnard.

★**Ogdensburg, N. Y.**—(Official)—Bids will be received by the State Hospital Commission, Albany, until 3 p.m., Aug. 17, for the installation of a water softening plant at the St. Lawrence State Hospital, Ogdensburg. J. H. B. Hanify is Secy. of the Comn.

Trenton, N. J.—The Board of City Commissioners will receive bids until Aug. 12 for the installation of chlorine apparatus at the city filtration plant. Johnson & Fuller, New York, N. Y., are Consult. Engrs.

The Hillcrest Water Co. has applied to the Board of Public Utility Commissioners to issue stock for $50,000 for extensions to its system.

★**Woodbury, N. J.**—(Official)—Bids will be received by Arthur Starr, City Clk., until 7:30 p.m., Aug. 25, for constructing a pumping station and pumping main at Mantua Creek, in connection with the artesian well water supply system.

✚**Hauto, Penn.**—WILLIAMSON & RICHARDSON, Scranton, have been awarded the contract by the Lehigh Coal & Navigation Co. for the construction of a reservoir at Hauto, at $150,000. The reservoir will, when completed, have a capacity of 7,000,000 gal.

Kittanning, Penn.—The proposition to issue $112,000 in bonds for the construction of a new water system is under consideration.

✚**Ligonier, Penn.**—According to press reports the contract for laying about four miles of water mains has been awarded to WILLIAM JONES, Carnegie, at $10,500.

Limestone, Penn.—Bonds for $10,000 have been voted, the proceeds of which will be used for the construction of a water system.

Baltimore, Md.—The Baltimore County Water & Electric Co. has been granted permission to extend its water mains from Joppa Road at Sherwood to Ruxton.

Hurlock, Md.—The citizens recently voted to issue bonds for $45,000, the proceeds of which will be used for the installation of water and sewer systems.

Richmond, Va.—Arrangements are being made by the Superintendent of Water-Works for the extension of the 20-in. water main in Dance St.

Rockymount, Va.—Bids will be received by the Town Recorder until Aug. 15, for the sale of $40,000 of bonds, the proceeds of which will be used for the construction of water and sewer systems.

Huntington, W. Va.—It has been recommended that the Board of Public Works issue bonds for $500,000, the proceeds to be used for the construction of a water plant on the Ohio River.

Piedmont, W. Va.—The citizens contemplate an issue of bonds for $85,000 for municipal improvements, included in which is the extension of the water system.

Tryon, N. C.—Bids will soon be received for the sale of $20,000 in bonds, the proceeds to be used for the installation of a water system. E. Missildine is Mayor.

Manning, S. C.—At a recent election bonds for $30,000 were voted, the proceeds of which will be used for constructing a water system. Noted July 16.

✚**Lagrange, Ga.**—The contract for constructing a water station, filters and extending the water system has been awarded to the MUNICIPAL ENGINEERING & CONSTRUCTION CO., Atlanta, and TUCKER & LAXTON, Charlotte, N. C. Noted July 2.

✚**Crystal Springs, Fla.**—The contract for the installation of a water system has been awarded to the J. B. McCRARY CO., Atlanta, Ga., at about $40,000. Noted July 2.

Fort Meade, Fla.—An election will be held Aug. 21, at which the proposition to issue bonds for $7500 for the extension of the water system will be submitted to the voters.

✚**Memphis, Tenn.**—Contracts for constructing the North Memphis pumping plant have been awarded to JAMES ALEXANDER CONSTRUCTION CO., at $126,421, for general construction; to CHAPMAN VALVE CO., at $10,810, for sluice gates; to ALLIS-CHALMERS CO., at $64,200, for pumping machinery, and at $62,730 for electrical machinery.

Nashville, Tenn.—The Lewisburg & Northern R.R. Co. will construct a water-pipe line, several miles long, to its yards at Nashville.

Monticello, Ky.—The Council contemplates an issue of bonds, the proceeds to be used for the construction of a water system.

Providence, Ky.—The installation of a water system is under consideration. L. Price is Clk.

Shelbyville, Ky.—The Shelbyville Water Co. will construct a reinforced-concrete dam across Clear Creek.

✚**Cleveland, Ohio**—The Commissioner of Purchases and Supplies has awarded the contract for constructing a concrete coagulant house and a wash water reservoir to the JOHN F. CASEY CO., Pittsburgh, Penn., at $92,552.

Delta, Ohio—Bids will be received by the Village Clerk until Aug. 10 for extending the water system.

East Youngstown, Ohio—Plans are being prepared by Chester & Fleming, Engrs., Pittsburgh, Penn., for a new water supply system at East Youngstown.

Lorain, Ohio—In a report to the City Council, C. Arthur Brown recommends an expenditure of $125,000 for the improvement of the water system.

Maumee, Ohio—Bonds for $56,000 were recently voted, the proceeds of which will be used for the construction of a municipal water system. George Camp, The Nasby, Toledo, is the Engr.

Gary, Ind.—(Official)—An election will be held Aug. 26 to vote on the proposition to issue bonds for $75,000, the proceeds of which will be used for the construction of a water plant in the Ridge Road district. Noted Mar. 14.

Greendale (Lawrenceburg post office) **Ind.**—The Council has granted a franchise to A. D. Cook to construct a water system. Estimated cost, $25,000.

✚**Logansport, Ind.**—The contract for installing three centrifugal pumps in the pumping station has been awarded to the DRAVO-DOYLE CO., Pittsburgh, Penn.

Bedford, Mich.—Bonds for $18,000 have been voted, the proceeds of which will be used for the installation of a water system.

+Detroit, Mich.—Contracts for laying about 55,000 ft. of water mains, from Grosse Point to the Highland Park reservoir, have been awarded to the INTERURBAN ENGINEERING & CONTRACTING CO., and WILLIAM BLANCK & J. RURCHE, Grand Rapids.

Aurora, Ill.—Bids will be received by the Board of Public Works until 5 p.m., Aug. 14, for drilling a well in connection with the water system.

+Berwyn, Ill.—The contract for water pipe, hydrants and auxiliary valves and boxes has been awarded to T. IGLEHART, Chicago, at $10,432.

Kansas, Ill.—Bids will be received by the Village Clerk until Aug. 11, for constructing a water system. Claude L. James, Mattoon, is the Engr.

Burlington, Wis.—Bids will be received by the Board of Public Works until Aug. 8, for the extension of the water mains, consisting of 3-, 4- and 8-in. water pipe, with gates, hydrants, etc.

Ackley, Iowa—The citizens contemplate the purchase and improvement of the local water plant and system.

★Knoxville, Iowa.—(Official)—The date of receiving bids for the proposed water works extension has been postponed from Aug. 5, to 8 p.m., Aug. 11. For particulars, see advertisement under Contracts To Be Let, in the issue of July 30.

Randolph, Iowa—Bonds for $15,000 were recently voted, the proceeds of which will be used for the extension of the water system.

St. Paul, Minn.—The construction of an addition to the pumping station at McCarron's Lake has been recommended to the Water Board. Estimated cost is $100,000.

Bids will be received by the City Clerk until Aug. 10 for about 20,000 ft. of water pipe.

Virginia, Minn.—Bids will be received by the Water and Light Commission until Aug. 10 for constructing a reinforced concrete reservoir to have a capacity of 1,000,000 gal.

Larned, Kan.—(Official)—Bids will be received by L. D. Burgess, City Clk., until 1:30 p.m., Aug. 14, for the construction of a water system and an electric-light plant. Worley & Black, Reliance Bldg., Kansas City, Mo., are Consult. Engrs. Noted Apr. 23.

Lawrence, Kan.—An election will soon be called to vote $350,000 for new waterworks or to purchase the private plant and make improvements. F. D. Brooks is City Clk. Noted June 4.

Mulberry, Kan.—The city contemplates an expenditure of $5000 for the extension of water mains.

Wellington, Kan.—Plans are being prepared by the Benham Engineering Co., Oklahoma City, Okla., for the construction of about 12 miles of water mains. M. H. Kirk is Comr. Pub. Wks.

Bridgeport, Neb.—The citizens recently voted to extend the water and sewer systems.

Clatonia, Neb.—Plans are being prepared by the Martz Engineering Co., First National Bank, Lincoln, for constructing a water system at Clatonia. Estimated cost $9200. Noted July 23.

+Orchard, Neb.—The Village Trustees have awarded a contract for the construction of a water system to the ALAMO ENGINE & SUPPLY CO., Omaha, at $16,118.

+Winner, S. D.—(Official)—Bids were received July 27, by Claude Maule, City Audr., for constructing a water system from the INTERMOUNTAIN BRIDGE & CONSTRUCTION CO., Tecumseh, Neb., $28,478 (awarded contract); Des Moines Bridge & Iron Works, Des Moines, Iowa, $29,480; and Katz Construction Co., Omaha, $29,240. Noted July 23.

Chinook, Mont.—An election will be held Sept. 10 to vote on the proposition to issue bonds for $10,000 for the improvement of the water system. Noted June 18.

Great Falls, Mont.—Bids will be received by the City Clerk until Aug. 10 for a centrifugal pump, 4,000,000-gal. capacity for the pumping station.

Missoula, Mont.—The city plans to award a contract soon for the reconstruction of the water system. L. E. Harris is City Clk. Noted July 16.

Monett, Mo.—Bonds for $35,000 have been voted, the proceeds of which will be used for the installation of a water system. Noted July 16.

Cotulla, Tex.—The citizens on Aug. 8 will vote on the proposition to issue bonds for $14,000, the proceeds of which will be used for the construction of a water system. Noted July 23.

+Dallas, Tex.—The City Commission has awarded the contract for 300 tons of 6-in. c.-i. water pipe and two tons of 4-in. pipe to the AMERICAN CAST IRON PIPE & FOUNDRY CO., Birmingham, Ala., at $26.50 per ton. Noted July 16.

Denison, Tex.—(Official)—Bids will be received by the Mayor and Board of Commissioners until noon, Sept. 5, for the installation of a 2,000,000-gal. mechanical filtration plant. A. B. Clenny is City Engr.

Sulphur Springs, Tex.—The construction of a concrete dam, a pumping station and a three-mile pipe line is under consideration. Arthur D. Stivers is City Engr.

Hudson, Colo.—The installation of a water system to cost $12,000 is under consideration.

La Salle, Colo.—The Union Pacific R.R. is making preliminary arrangements for the construction of a water-pipe line from Greeley to La Salle, about seven miles.

Aztec, N. M.—The Aztec Irrigation Co. has taken over the holdings of the Inca Canal Co. and the irrigation system of the later will be extended so as to provide a water supply for 22,000 acres of land.

Culdesac, Idaho—Bonds for $10,000 have been voted, the proceeds of which will be used for the construction of a water system.

Rigby, Idaho—The city has voted bonds for $7500 for improvements to the water system. Noted July 2.

Shoshone, Idaho—The city will vote Aug. 11, on the question of issuing $18,000 in bonds for the purchase and extension of the waterworks system owned by the Great Shoshone & Twin Falls Water Co. Harry W. Anderson is City Clk. Noted May 7.

Twin Falls, Idaho—The construction of a new water system to cost $250,000 is considered by the City Council.

Toppenish, Wash.—Plans have been prepared and bonds for $30,000 have been voted for the construction of a steel water tower. Noted July 30.

Hermiston, Ore.—The Western Land & Navigation Co. contemplates an expenditure of $225,000 for the construction of a new dam and canals. A. Messner is Pres.

Klamath Falls, Ore.—Plans are being made to form a water district in Willow Valley to irrigate 4000 acres. W. A. Duncan and R. F. Tuttle are among those interested.

Portland, Ore.—All bids received by the City Commission for 800 water meters have been rejected. New bids will soon be asked.

Glendale, Calif.—Bonds for $248,000 have been voted to purchase the local water system, extend and improve it.

Placerville, Calif. — The County Supervisors will construct a dam to impound the waters of Webber Creek for irrigating purposes.

Stetler, Alta.—The construction of a water system at a cost of $8000 is under consideration. Lewis C. Harry is City Secy.-Treas. Charles Donevan, Seattle, is Engr.

Burnaby, B. C.—The city has rejected all bids recently received for 10,000 ft. of steel water pipe. New bids will soon be asked by the City Clerk. Noted July 16.

Richmond, B. C.—Bonds for $40,000 have been voted, the proceeds of which will be used for the extension of the water system.

SEWERS

+Milford, Maine—(Official)—The contract for constructing about 6935 ft. of sewer has been awarded by the Board of Selectmen to HOBART & RICHARDSON, Old Town, Maine. F. L. Holmes is City Engr.

Boston, Mass.—Bids will be received by the Department of Public Works, until Aug. 7, for constructing sewers in South Boston and in the Dorchester District; also until Aug. 10, for sewers in the Hyde Park District. L. K. Rourke is Comr. Pub. Wks.

+Swampscott, Mass.—The contract for extending the sewer system has been awarded by the Sewer and Water Board to MICHAEL McDONOUGH, at $13,396. Other bids were: Abram French, $16,743; F. D. Mayo, $13,997; D. J. Sheehan, $15,745; J. T. Lyons, $15,337.

+Providence, R. I.—The contract for constructing sewers in Lorimer, Ogden, Methyl and Eighth Sts. has been awarded to CHARLES CRANKSHAW, at $8351.

Binghamton, N. Y.—Plans are being prepared by John A. Giles City Engr., for constructing an intercepting sewer in Conklin Ave. to cost about $18,000.

The Common Council contemplates the construction of a sewer along the east bank of the Chenango River.

+Niagara Falls, N. Y.—The Board of Public Works has awarded the following contracts: REED-CODDINGTON CO., for constructing sewers in Niagara Rapids Boulevard, Main St. and Cliff St., at $37,599; also in 27th St. and Buffalo Ave., at $39,335; to DOMINIC SPICHONNE, for sewers in 16th St., Osborne Court, 17th St., Fort St., Walnut Ave., in alley between 14th and 15th Sts., at $10,294; in Welch Ave., to WILLIAM RUFRAN, at $8696. Noted June 11.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough, until 2 p.m., Aug. 10, for the reconstruction of a sewer in South St., from Oliver St. to Pier No. 26, East River, near Catherine St.

(Borough of Brooklyn)—(Official)—Bids will be received by Maurice E. Connolly, Pres. of the Borough, until 11 a.m., Aug. 12, for constructing sewers in various streets.

Oswego, N. Y.—Bids will be reecived by the Department of Public Works until Aug. 7, for constructing vitrified pipe sewers in various sheets.

★Rochester, N. Y.—(Official)—Bids will be received by the State Hospital Commission, Capitol, Albany, N. Y., for constructing a sewage pumping station and installing additional laundry equipment at the Rochester State Hospital. J. H. B. Hanify is Secy. of the Hospital Commission.

+Rochester, N. Y.—The contract for constructing the storm and sanitary sewer in Minton Road has been awarded by the Board of Contract and Supply to LOUIS H. BROTSCH, at $65,280. The contract for the Thomas Creek overflow sewer has been awarded to WHITMORE, RAUBER & VICINIUS at $8900.

Suffern, N. Y.—Plans for a sewer system and sewage disposal plant for the Village Board are being prepared by Clyde Potts, 30 Church St., New York, N. Y. A. B. Ronk is Village Clk.

★Syracuse, N. Y.—(Official)—Bids will be received by the Syracuse Intercepting Sewer Board, City Hall, until 4 p.m., Aug. 20, for constructing a storm-water sewer in the First and Second Wards. Harry I. Hamlin is Secy.

Watertown, N. Y.—The lowest bid received by the City Council for constructing the trunk sewer was from Burns Bros. & Haley, Watertown, at $6448.

Cranford, N. J.—James H. Fuertes, Engr., 140 Nassau St., New York, N .Y., is preparing plans for a sewage disposal plant, estimated to cost $150,000. Edward Mosher is Town Engr.

+Newark, N. J.—The contract for constructing part of Section 12 of the Main Intercepting Sewer has been awarded by the Passaic Valley Sewage Commissioners to the J. F. SHANLEY CO., Newark, at $129,589. Noted July 23.

★Newark, N. J.—(Official)—Bids were received by the Passaic Valley Sewerage Commissioners for constructing Section 14 of the Main Intercepting Sewers as follows: Fusco

Construction Co., Newark, N. J., $265,172; Cauldwell-Wingate Co., New York, N. Y., $253,500; New York & New Jersey Construction Co., Newark, N. J., $243,400; The Whiting-Turner Construction Co., Baltimore, Md., $214,327; Merrill-Ruckgaber Co., & Mason, Hilton & Co., New York, N. Y., $186,756; Beaver Engineering & Contracting Co., New York, N. Y., $179,966; Bruno & Petitti, Belleville, N. J., $172,180.

The following bids were received for constructing part of Section 27, crossing the Passaic River in compressed-air tunnel from Newark to Harrison, Fusco Construction Co., Newark, N. J., $191,305; Merrill-Ruckgaber Co., & Mason, Hilton & Co., New York, N. Y., $76,090; New York & New Jersey Construction Co., New York, N. Y., $75,325; Booth & Flinn Ltd., New York, N. Y., $59,965; Charles A. Haskin, Charlestown, Mass., $55,420. Noted July 9.

Trenton, N. J.—Bids will be received by the City Commission, until 2:30 p.m., Aug. 12, for constructing sewers in various streets. Frank Thompson is City Clk.

Manning, S. C.—The city has voted $10,000 in bonds for the purpose of installing a sewer system.

Woodruff, S. C.—The citizens have voted $60,000 in bonds for the construction of sewers and water works.

Brunswick, Ga.—The city has voted bonds for $16,500 for making extensions to the sewer system.

✚Birmingham, Ala.—The contract for the construction of sanitary sewers in East Birmingham has been awarded by the Board of Commissioners to H. N. BOWDRY, Birmingham at $15,546. Julian Kendrick is City Engr. Noted July 1 6.

Bowling Green, Ohio—Bids will be received by the Secretary, Board of Trustees, Bowling Green State Normal School, until Sept. 1, for constructing a sewer to connect with the city's sewer system.

Cleveland, Ohio—The city has authorized the purchase of four acres near Edgewater Park as a site for the West Side sewage disposal plant.

Cleveland Ohio—See item under Miscellaneous: Excavation, etc.—Cleveland, Ohio.

✚Dayton, Ohio—The contract for constructing a storm-water sewer extension in Salem Ave. has been awarded to BOYD & COOK, at $19,950.

Dayton, Ohio—(Official)—The city plans to construct additional storm sewers, to enlarge the present sanitary sewer system and construct sewage disposal plant.

Lowellville, Ohio—The City Council contemplates the construction of six miles of sanitary sewers.

Gary, Ind.—Bids will be received until Aug. 17, by the Board of Public Works for the construction of Local Sewer 39, incuding 1125 ft. 18-in., 1064 ft. 15-in., 610 ft. 12-in. vitrified tie sewer, 17 manholes, etc. The estimated cost is $6784, W. J. Fulton is City Engr.

✚Berwyn, Ill.—(Official)—The contract for constructing a sewer in 16th St., has been awarded to T. H. IGLEHART & CHARLES M. PORTER CO., Chicago, Ill. Oscar N. Lindohl is Secy. Board of Local Improvements. Noted July 9.

✚Chicago Heights, Ill.—The contract for constructing the sanitary sewer system has been awarded by the Board of Local Improvements to ROBERT NELSON, Racine, Wis., at $74,568. Other bids were: Carson Payson Co., Danville, $92,153; Chicago Drainage Construction $80,240; Green & Son Co., Streator, $75,518. Noted July 9.

La Salle, Ill.—The city will construct an extension to the sewer system, estimated to cost $40,000. Bonds for the work have been voted.

Mounds, Ill.—Bids will be received by the City Clerk, until Aug. 10, for constructing a sewer system, requiring 18,000 lin.ft. 8- to 15-in. pipe, manholes, septic tank, and filter beds.

Burlington, Wis.—Bids will be received by the Board of Public Works until Aug. 8, for the construction of sanitary and storm sewers, requiring 8- and 12-in. vitrified pipe sewers.

✚Milwaukee, Wis.—The Department of Public Works has awarded a contract for the construction of a sewer in Hawley Road and Vliet St. to F. H. KAKIELSKI at $94,186. A contract has also been awarded to JOHN BOWLER for a relief sewer at Locust St., from North Pierce to Seventh St., at $45,313.

New London, Wis.—Bids will be received by the Common Council until Aug. 18 for constructing sewers in three streets.

★Racine, Wis.—(Official)—Bids will be received by the City Clerk until 10 a.m., Aug. 15, for constructing a sewer in 21st St. For further information, see advertisement under Contracts To Be Let.

Bedford, Iowa—The City Council contemplates the construction of a septic tank, estimated to cost $5000.

Burlington, Iowa—Bids will be received by H. G. Vollmer, City Engr., until Aug. 15, for constructing a concrete trunk sewer estimated to cost $92,000.

✚Clarion, Iowa—The contract for constructing Sections 2, 3 and 4 of the sewer system has been awarded to GEORGE S. COLLINS, 448 Omaha National Bank, Omaha, Neb., at $37,043. Noted July 9.

✚Deerwood, Minn.—(Official)—The contract for constructing a sanitary sewer system has been awarded to the PASTORET CONSTRUCTION CO., Duluth, Minn., at $7580, Other bids were: Magnus Johnson, Minneapolis, Minn., $9100; Ilstrup & Olson, Minneapolis, Minn., $8720; Lawrence-McCann Co., Eveleth, Minn., $8462; Tanner Bros., St. Paul, Minn., $8750; Greene Contracting Co., Albert Lea, $8850; F. A. Glass, Brainerd, Minn., $12,935. J. O. Hage is Village Clk. Noted July 16.

✚Sleepy Eye, Minn.—The contract for constructing the sanitary sewer system, including the disposal plant and storm sewer outlet has been awarded to WILLIAM B. BOSWORTH, Ada, at $33,905. Other bids were G. E. Gilbertson, St. James, $36,589; Thornton Bros., St. Paul, $39,830; William Danforth, St. Paul, $37,158; Black Hawk Construction Co., $41,052; Lander & Gessner, Kansas City, $37,473; E. M. Ely, Kansas City, $33,907. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., prepared the plans.

Warroad, Minn.—Bids will be received by E. M. Heimpach, Village Clk., until Aug. 27, for constructing about 2060 ft. 10-in. sewer and about 1800 ft. 8-in., 10-in., and 12-in. sewers also a sewage disposal tank. Noted July 2.

Emporia, Kan.—The city will spend $25,000 for the construction of two sewage disposal plants. R. H. Hamer is Mayor.

Siloam Springs, Ark.—(Official)—An improvement district has been organized and a petition circulated calling for bonds to construct a sewer system to cost about $50,000. J. H. Perry is Mayor.

✚Dallas, Tex.—The Board of City Commissioners has awarded the contract for constructing a storm sewer in Grigsby Ave. to the DALLAS LIME & GRAVEL CO., at $12,186. Other bids were: Winslett-Eldridge Co., $12,532; C. W. Olcott, $13,670.

Harrington, Wash. — The city contemplates the installation of a sewer system.

Seattle, Wash.—Bids were received by the City Council for constructing the 60-in. c.-i. pipe sewer, in the siphon tunnel of the North Trunk sewer. L. R. Ellis, $16,362; Washington Construction Co., $13,851; Part Contracting Co., $14,828; C. H. Keihl, $14,990.50; Wenzler & Ward, $14,920.

Seattle, Wash.—The following bids were received by the City Council for constructing the 46th St. sewer: L. Coluccio, $15,866; C. Cristfero, $14,519; H. Young, $14,694; John Alemand, $14,695; A. N. Fiorito, $14,193; G. W. Walker, $16,258; V. Ramaglia, $12,491; Sylliasen & Sando, $12,435.

Galt, Calif.—The city contemplates the construction of a sewer system to cost about $17,500. J. J. Rosenthal, State Housing and Irrigation Board, Sacramento, Calif. is preparing plans.

✚Los Angeles, Calif.—(Official)—The contract for constructing an outfall sewer system and a sewage disposal plant, has been awarded by the Board of Public Works to JOHN BALCH, 588, 10th St., San Pedro, Calif., at $196,998. Other bids were: James Kennedy, $212,000; Benjamin Ford & Frederick H. Stout, $243,000; W. A. Taylor, $259,750. Noted July 9.

Napa, Calif.—The city has voted $10,000 in bonds for constructing storm sewers in North Napa.

San Francisco, Calif. — The Board of Supervisors has authorized the expenditure of $131,000 for the construction of the Baker's Beach outlet sewer, the Fulton Ave. sewer, the Glenn Park extension sewer and the Fifth St. outlet sewer. Frederick J. Churchill is Secy. Bd. of Pub. Wks.

Canora, Sask.—The city has voted to construct sewage and water works, estimated to cost $60,000. Bids will soon be called for the work.

✚Sapperton, B. C.—The contract for constructing a sewer system has been awarded by the City Council to ROBERT McCLEAN & CO., Pacific Bldg., Vancouver, at $99,400.

GARBAGE

Philadelphia, Penn.—The city has rejected bids for the collection and disposal of garbage, and new bids will be received until Oct. 16.

★Akron, Ohio—(Official)—Bids were received, July 30, by the city for constructing garbage reduction plant buildings as follows: J. C. Devine Construction Co., Alliance, Ohio, $44,050; Masters & Mullen Construction Co., Cleveland, Ohio, $48,350; Pitt Construction Co., Pittsburgh, Penn., $52,460; Duquesne Contracting Co., Pittsburgh, $58,450; Carmichael Contracting Co., Akron, $61,277; Arthur G. McKee, $52,300 (informal).

Columbus, Ohio—E. H. Latham, Columbus, has submitted the lowest bid to the city for constructing the new incinerator plant, at $18,286.

STREETS AND ROADS

Boston, Mass.—Bids will be received until Aug. 10, by the Department of Public Works for bituminous macadam roadways in St. Francis de Sales St., Roxbury and in Clement Ave. and Pinehurst St. L. K. Rourke is Comr.

✚A contract for constructing a road from Reading to Stoneham has been awarded to ROWE CONTRACTING CO. at $19,959. Other bids were. F. J. Mayne, West Newton, $20,379; J. E. Watkins, $20,527; James A. Gaffey, Medford, $24,034; D. J. Sheehan, Lynn, $28,379.

✚Holyoke, Mass.—A contract for laying roman road pavement on Hampden St. has been awarded to DANIEL O'CONNELL'S SONS, at $1.23 per sq.yd.

Hartford, Conn.—Bids will be received by Charles J. Bennett, State Highway Commissioner, until 2 p.m., Aug. 18, for State road work as follows:

Griswold Township, about 5075 lin.ft. plain or reinforced concrete and 17,800 lin.ft. resurfacing on the Voluntown Road. Plans are on file at Selectmen's office, Jewett City.

Cromwell Township, about 2175 lin.ft. trap rock macadam or gravel construction on the Newfield Road. Plans are on file at Selectmen's office.

Bristol City, about 11,692 lin.ft. gravel or plain or reinforced concrete construction on Park St. Estimated quantities are 19,265 sq.yd. 8-in. gravel, 7770 sq.yd. grading, 19,265 sq.yd. steel reinforcement, and 800 ft. corrugated iron culverts. Plans are on file at City Engineer's office, Bristol.

Middletown Township, about 1690 lin.ft. trap rock or gravel construction on Newfield St. Estimated quantities, are; 1830 sq.yd. of macadam, 800 sq.yd. 4-in. macadam over telford or 2630 sq.yd. 8-in. gravel. Plans are on file at Selectmen's office, Middletown.

Manchester Township, about 6700 lin.ft. plain or reinforced concrete or hassam paving on Main St. Estimated quantities, 2330 cu.yd. concrete and 11,910 sq.yd. earth grossing. Plans are on file at Town Clerk's office, Manchester Center.

Middlebury Township, about 5883 lin.ft. gravel construction on the Southbury Road. Estimated quantities, 9200 sq.yd., 8-in. gravel, 1085 lb. bridge reinforcement, 150 ft. corrugated iron culverts. Plans are on file at office of A. S. Judd, Middlebury.

Norfolk Township, 5550 lin.ft. graded construction on the Torrington Road. Estimated quantities, 3070 cu.yd. grading, 1430 cu.yd. hardening material, 196 lin.ft. corrugated iron culverts. Plans are on file at office of A. P. Curtiss, Norfolk.

North Canaan Township, about 6500 lin.ft. gravel, limestone or slag (with 2-in. macadam surface) construction on the Clayton Road. Plans are on file at Selectmen's office, Canaan.

Danbury Township, about 2884 lin.ft. plain or reinforced concrete, hassam, warrenite, amiesite or bituminous concrete construction. Plans are on file at office of Director of Public Works.

Old Saybrook Township, about 1175 lin.ft. trap rock macadam or gravel construction on Dublin Lane. Estimated quantity, 3075 sq.yd. 7-in. macadam. Plans are on file at Town Clerk's office, Saybrook Junction.

✚Contracts for road work, bids for which were received July 14, have been awarded by the State Highway Commission as follows:

Huntington Township, about 5750 lin.ft. gravel construction on Center St., for $7091 and about 6750 lin.ft. gravel construction on the River Road for $9174, to JOHN ARBORIO, New Haven.

Cornwall and Goshen Townships, about 10,150 lin.ft. native stone macadam for $11,685 and about 2700 tons of native crushed stone in piles for $1220, to the PORCARO CONSTRUCTION CO., Willimantic. Noted July 2 and 23.

★✚**Albany, N. Y.**—Bids were received, July 27, by the State Highway Commission and contracts were awarded for road improvement as follows:

Road No. 5501, Albany County, 2.86 miles. ST. LAWRENCE CONSTRUCTION CO., Albany, $32,234.

Road No. 1204, Clinton County, 0.80 miles. DANA W. ROBBINS, New York, $9985.

Road No. 1035-A, Erie County, 3.13 miles. SERVISS & MACKEY, Youngstown, $53,516.

Road No. 5500, Essex County, 7.16 miles. W. F. BOUGHTON CO., Hudson Falls, $80,783.

Road No. 468, Herkimer County, 5.55 miles. H. WARD DICKISON, Syracuse, $52,519.

Road No. 5435, Monroe County, 0.92 miles. J. B. HURLEY, INC., Fredonia, $26,525.

Road No. 5505, Nassau County, 2.93 miles. H. J. MULLEN CONTRACTING CO., Jamaica, $45,614.

Road No. 1136, Oswego County, 0.90 miles. A. J. ROCKWOOD, Rochester, $12,348.

Road No. 5504, Rockland County, 0.39 miles. PAUL G. SANGER, Mumsey, $7619.

Road No. 5496, Schenectady County, 0.90 miles. SCHENECTADY CONTRACTING CO., Schenectady, $39,609.

Road No. 1206, Suffolk County, 1.56 miles. H. J. MULLEN CONTRACTING CO., Jamaica, $22,629.

Road No. 1208, Suffolk County, 9.57 miles. EASTERN ASPHALT PAVING CO., New York, $108,943.

Road No. 1207, Westchester County, 1.28 miles. JOHN J. HART, Peekskill, $34,395.

Road No. 1205, Yates County, 5.18 miles. ATLANTA CONSTRUCTION CO., Atlanta, $50,202.

Bids were received by the State Commission of Highways for repair of public highways by State Aid, July 27, as follows:

Repair Contract, No. 677, Montgomery County. JOHN P. DUGAN & CO., Amsterdam, $1094.

Repair Contract, No. 678, Montgomery County. JOHN P. DUGAN & CO., Amsterdam, $3938.

Repair Contract, No. 679, Montgomery County. JOHN P. DUGAN & CO., Amsterdam, $2164.

Repair Contract, No. 680, Montgomery and Fulton Counties. CHAMPLAIN CONSTRUCTION CO., Saratoga, $5350.

Repair Contract, No. 676, Oneida County. Contract not awarded. Noted July 16 and 30.

✚**Batavia, N. Y.**—The contract for paving Walnut St. with brick has been awarded to the McKINNEY-McGUIRE CONSTRUCTION CO., Niagara Falls, N. Y., at $13,960.

✚**Buffalo, N. Y.**—Contracts have been awarded for paving as follows: Alvin St., to the HENRY P. BURGARD CO., at $39,363; Virginia St. and Dunstan Ave., to the GERMAN ROCK ASPHALT & CEMENT CO., LTD., at $8080 and $11,600, respectively; Marion Ave., to the ERIE CONTRACTING CO., at $5300.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough of Manhattan, Room 2032 Municipal Bldg., until 2 p.m., Aug. 10, for improving 177th St. from Audubon Ave. to St. Nicholas Ave.

(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough of Manhattan, until 2 p.m., Aug. 7, for repairing asphalt block pavements in the Borough of Manhattan, on all streets where the guarantee of maintenance has expired or will expire during the year 1914, and for improving Madison Ave. from 33d St. to 36th St., 160th and 161st Sts., from Broadway to Fort Washington Ave., 191st St. from Audubon Ave. to Wadsworth Ave.

(Borough of the Bronx)—(Official)—Bids will be received by the Park Commissioners, Municipal Bldg., until 3 p.m., Aug. 13, for 60,000 gal. of refined coal tar and 1500 cu.yd. grits No. 3, for parks in the Borough of the Bronx.

Hackensack, N. J.—(Official)—Bids will be received by the Board of Chosen Freeholders of Bergen County until 3 p.m., Aug. 24, for improving the following streets and roads: Terrace Ave., Hackensack from Essex St. to the Hasbrouck Heights Borough line, Passaic St., Maywood from the Hackensack line to the Saddle River Township line, Paramus Road from Arcola to the Franklin Turnpike, first section of the Kinderkamack Road from Anderson St., Hackensack to the Emerson Borough line and the third section of the Fort Lee Road from Leonia Station to the Edgewater Borough line. Harry A. Shuart is Clk.

Hammonton, N. J.—Bids will be received by the Town Clerk until Aug. 8 for 49,080 sq.ft. of concrete sidewalks; 19,041 lin.ft. concrete curb and 7000 sq.ft. of driveway.

New Brunswick, N. J.—Bids will be received by Common Council, 380 George St. until 8 p.m., Aug. 10, for improving Hussar, Oliver, John, Hartwell, Carman and Welton Sts.

✚**Passaic, N. J.**—The contract for asphalt paving on Hope Ave. has been awarded to the UNION BUILDING & CONSTRUCTION CO. at $37,425.

West New York (Weehawken Post Office) **N. J.**—Bids will be received by the Town Council until Aug. 11, for improving Sixth St. from Bergenline Ave. to Park Ave. and Park Ave., formerly known as Bulls Ferry Road from the southerly to the northerly limits.

Chester, Penn. — See item under Miscellaneous: Park Work-Chester, Penn.

✚**Greensburg, Penn.**—(Official)—The contract for improving the Salina-Avonmore County Road has been awarded to JOHN HERMANN, Latrobe, Penn., at $44,858. Noted July 9.

✚**Houston, Penn.**—The contract for grading, curbing and paving Main St. has been awarded to the PROSSER CONSTRUCTION CO., Carnegie at $7916.

Johnstown, Penn.—(Official)—Bids will be received by Harry W. Slick, City Treasury until 2 p.m., Aug. 24, for the sale of $100,000 of bonds for highway improvement.

✚**Norristown, Penn.**—(Official)—The contract for resurfacing a portion of the Conshohocken Pike has been awarded to D. J. LYNCH, at $2.05 per ton. About 8000 tons of stone will be required. Noted July 23.

Philadelphia, Penn.—Bids will be received until Aug. 18 for completing the Northeast Blvd. The estimated cost of the work is $400,000.

★**Philadelphia, Penn.**—(Official)—Bids will be received by the Department of Public Works until noon, Aug. 12, for paving according to schedules "A," "B," "C," "D," "E," "F" and "G." For particulars see advertisement under "Contracts to Be Let."

Sharpsburg, Penn.—(Official)—Bids will be received by J. F. Barry, Borough Clk., 1113 North Canal St. until 5 p.m., Aug. 10 for improving Main St.

★**Baltimore, Md.**—(Official)—Bids will be received by the Board of Awards until Aug. 12 to grade, curb and pave with vitrified block the following streets: Center St. from Washington Pl. to Courtland St., Courtland St. from Franklin St. to Center St., and St. Paul St. from Hamilton St. to Center St. R. Keith Compton is Consult. Engr.

✚**Princeton, W. Va.** — (Official) — The contract for constructing roads has been awarded to CURTIS-WARD CO., Chicago, Ill., at $222,924. Noted July 23.

Mooresville, N. C.—Bids will be received by the City Clerk until Aug. 24 for 9000 sq.yd. of bituminous paving with a concrete base and curb.

Conway, S. C.—At a recent election the citizens of Floyd Township voted $25,000 in bonds for road work.

Fort Meade, Fla.—An election will be held Aug. 21 to vote on the proposition to issue $25,000 of bonds for street paving.

★**Miami, Fla.**—(Official)—Bids will be received by the City Clerk until 7:30 p.m., Aug. 20, for paving certain streets. For particulars see advertisement under "Contracts to Be Let."

✚**Birmingham, Ala.**—The contract for paving 34th Ave. from 26th to 29th St. has been awarded to the SOUTHERN BITULITHIC CO. at about $9300. Noted July 16.

Centerville, Ala.—Bids will be received by the County Commissioners until Aug. 19, for surfacing the Centerville and Blocton Road with chert. The estimated cost of the work is $10,542. W. S. Keller is State Highway Engr.

Marion, Ala.—Bids will be received by the County Commissioners until Aug. 18 for gravel road. The approximate cost of the work is $6542.

Ashtabula, Ohio—M. H. Turner, Dir. of Pub. Ser. will receive bids until Aug. 8 for improving Narbor Ave. by grading and draining.

✚**Bellevue, Ohio**—The contract for improving Sheffield St. with a 24-ft. concrete pavement has been awarded to LEE BROS., Green Springs, at $6700.

✚**Canal Dover, Ohio**—A contract for paving three streets has been awarded to CROSS & MEYER, Wheeling, W. Va., at $45,000.

Cincinnati, Ohio—(Official)—Bids will be received by Philip Fosdick, Dir. of Pub. Ser., until noon, Aug. 12, for improving Jefferson Ave. from Corry St. to St. Clair St.

Columbus, Ohio—(Official)—Bids will be received by the Board of County Commissioners until noon, Aug. 12, for the sale of $48,000 in bonds for the improvement of certain roads. John Scott is Clk. of the Comrs.

Deerfield, Ohio—(Official)—Bids will be received by James Archibald, Township Clk. until noon, Aug. 24, for the sale of $7500 of bonds for improving roads.

✚**Fort Recovery, Ohio**—The contract for paving West Butler St. with brick has been awarded to LOWRY, MANNIX & WAGNER, at $10,110.

Grandview Heights (Columbus Post Office) **Ohio**—(Official)—Bids will be received V. W. Jones, Village Clk., R. F. D. No. 5, Station "A", Columbus until noon Aug. 15, for improving Lincoln Road between Third and Fifth Ave.

Ironton, Ohio—Bids will be received by the Board of Public Service until Aug. 10 for improving Fifth, Center and Lorain Sts., by paving with brick, on a concrete foundation.

La Rue, Ohio—(Official)—Bids will be received by J. W. Campbell, Village Clk. until Aug. 12, for paving High School, Front and Vine Sts. The estimated cost of the work is $32,000. Noted July 9.

+Logan, Ohio—The contract for paving Walnut and North Sts. with brick has been awarded to HOUSTON-HENDERSON CONSTRUCTION CO., at $30,000.

Martins Ferry, Ohio—The City Council has passed ordinances for the paving of Fifth, East Second and Douglas Sts. The City Engineer is preparing plans for the paving of Washington St. from Hopkins to William St. with bituminous macadam.

Marysville, Ohio—(Official)—Bids will be received by C. A. Morelock, Audr. of Union County, until 1 p.m., Aug. 15, for grading, draining and macadamizing the Vansant and Beaver Road in Claiborne Township.

Painesville, Ohio—W. Albert Davis, Clerk of the Bd. of Comrs. of Lake County, willl receive bids until Aug. 20 for grading, draining and paving with brick with concrete foundation the Ridge and Arnold Roads.

Richwood, Ohio—Charles A. Morelock, Audr. of Union County, will receive bids until Aug. 15 for grading and macadamizing a county road in Clairborne Township.

Uhrichsville, Ohio—Bids will be received by H. O. Snider until Aug. 15 for improving Newport Ave.

Waldo, Ohio—Bids will be received by O. H. Apt, Clk., until Aug. 13, for paving certain portions of Marion St. with vitrified brick or block on a concrete foundation.

Auburn, Ind.—(Official)—Bids will be received by the Commissioners of Dekalb County until 10 a.m., Sept. 15, for constructing a road on line between Butler and Jackson Townships. A. W. Madden is Audr.

Bloomington, Ind.—(Official)—Bids will be received by the Common Council until 7:30 p.m., Aug. 10, for the improvement of Kirkwood St. Horace Blakely is City Clk.

Danville, Ind.—(Official)—Bids will be received by the Commissioners, until 10 a.m., Sept. 8, for constructing roads in Eel and Brown Townships.

Fort Wayne, Ind.—(Official)—Bids will be received by the Commissioners of Allen County until 10 a.m., Aug. 24, for constructing a concrete road in Adams Township.

Frankfort, Ind.—(Official)—Bids will be received by E. M. Caldwell, Treas. of Clinton County, until 10 a.m., Aug. 10, for the sale of $38,320 of highway bonds.

+Gary, Ind.—The contract for improving Pennsylvania St. has been awarded to METZ & McVAY at $10,211. Noted July 2.

Milford, Ind.—(Official)—Bids will be received until 2 p.m., Aug. 24, for paving a mile of streets. Brick and concrete curb and gutters will be used. A. J. Forbing is Town Clk. Amandus M. Smith, Elkhart, is Engr.

+Richmond, Ind.—The contract for improving Ninth St. has been awarded to M. B. KELSEY, at $7921.

+East St. Louis, Ill.—The contract for improving Summit Ave., from Washington Pl. to 16th St., has been awarded to LOUIS RICH, at $7617.

+Peoria, Ill.—The contract for paving Bradley Ave. with asphalt has been awarded to J. W. BUSHNELL at $13,444. Noted July 16.

+St. Augustine, Ill.—The contract for paving Simmons St. has been awarded to J. B. McAULEY, at $32,224.

Springfield, Ill.—(Official)—Bids will be received by the State Highway Commission until 11 a.m., Aug. 11, for the following road work: Will County Route 2, Section A, 9300 lin.ft. concrete, estimated cost, $14,885; Will County, Route 13, Section B, 10,800 lin.ft. of concrete, estimated cost, $19,300; Warren County, Route 7, Section A, 5500 lin.ft. of brick, estimated cost, $12,316; Warren County, Route 12, Section B, 4000 lin.ft. of brick, estimated cost, $9530; Logan County, Route 7, Section B, 3600 lin.ft. of concrete, estimated cost, $5689; Kankakee County, Route 1G, Section A, 9200 lin.ft. of concrete, estimated cost, $17,712.

Springfield, Ill.—(Official)—Bids will be received until 11 a.m., Aug. 19, by the Illinois Highway Commission for the following road construction, all cement to be furnished by the state: Crawford County, Route 3, Section 8, 18,048 lin.ft. of concrete, estimated cost $19,584; Clay County, Route 5, Section A, 3300 lin.ft. of concrete, estimated cost $4763; Boone County, Route 1, Section A, 4500 lin.ft. of concrete, estimated cost $6452; Douglas County, Route 11, Section B, 2520 lin.ft. of brick, estimated cost $5313; Douglas County, Route 3, Section A, 4500 lin.ft. of brick, estimated cost $9146; McHenry County, Route 1, Section A, 2600 lin.ft. of concrete, estimated cost $4895; McHenry County, Route 11, Section B, 1500 lin.ft. of concrete, estimated cost $3066.

+Waukegan, Ill.—(Official)—The contract for grading and paving portions of Julian, Ash, First and Third Sts. has been awarded to the WESTERN IMPROVEMENT CO. at $18,019. Noted Feb. 26 and July 9.

Burlington, Wis.—Bids will be received by the Board of Public Works until Aug. 8, for approximately 6000 sq.yd. of paving on a 5-in. concrete base.

+Milwaukee, Wis.—The contract for paving 35th St. with brick has been awarded to W. T. McGOVERN CO., 100 Eighth St., at $5503.

+Portage, Wis.—A contract has been awarded to J. RASMUSSEN & SON, Oshkosh, Wis., for paving several streets with brick on concrete foundation at $48,000. Noted July 16.

Davenport, Iowa—(Official)—Bids will be received by Edward Collins, Scott County Audr., until 2 p.m., Aug. 10, for improving Section "D" of the Davenport-Cadda Road and part of Sections "G" and "H" of the Davenport-Princeton Road.

+Duluth, Minn.—The contract for paving St. Croix Ave. with brick has been awarded to the D. H. CLOUGH & CO. at $35,018.

+Hibbing, Minn.—(Official)—The contract for paving about 7000 sq.yd. on Fifth Ave. and McKinley St. has been awarded to the E. W. COONS CONTRACTING CO., at $28,000. Noted July 22.

Nashwauk, Minn.—(Official)—Bids will be received by the Village Council until 2 p.m., Aug. 8, for a concrete pavement on Second St. from Central Ave. to Pearson Ave. and Third St. from Central Ave. to Deering Ave. W. Sumi is Village Recdr.

St. Paul, Minn.—Bids will be received until 10 a.m., Aug. 10, for grading and improving Como Ave., west from Carter Ave. to Eustis St. August Hohenstein, Court House, is Purchasing Agent.

Arma, Kan.—A. C. Moore, Engr., Bartlett Bldg., Joplin, Mo., is preparing plans for street improvements.

Kearney, Neb.—An election was held and citizens voted in favor of issuing $15,000 in bonds to pave street intersections.

+Billings, Mont.—The contract for paving First Ave. North has been awarded to WARREN CONSTRUCTION CO. at $14,835. Noted July 2.

Terry, Mont.—Bids will be received until 8 p.m., Aug. 12, for constructing approximately 33,600 sq.ft. of concrete sidewalks. L. H. Braley is City Clerk.

Festus, Mo.—Bids will be received by J. C. Davidson, City Clk., until 8 p.m., Aug. 22, for the improvement of Third St. from Adams St. to Mill St.

Kansas City, Mo.—The county clerk will receive bids until Aug. 17, for grading and draining the Blue Mills and Sibley Road.

Bids will be received by the County Clerk until Aug. 20, for grading, draining and macadamizing Woodland Ave.

Bids will be received by the County Clerk until Aug. 24 for grading, draining and building culverts on the Grain Valley and Tarnsney Road.

+Denison, Tex.—(Official)—A contract for paving 3300 sq.yd. with brick has been awarded to the J. C. FEILD ENGINEERING CO., 105-8 Feild Bldg.

Fort Stockton, Tex.—(Official)—Bids will be received until 1 p.m., Aug. 13 for improving approximately 250 miles of Pecos County Highways. Howell Johnson is County Judge.

Houston, Tex.—Bids will be received by H. L. Washburn, County Audr., 10 a.m., Aug. 10, for grading three miles of ""M" St., Precinct No. 1.

+Smithville, Tex.—The contract for graveling streets has been awarded to WALTER MOORE at approximately $15,000.

Sulphur Springs, Tex.—Bids will be received by the City Secretary until Aug. 20 for paving the public square, Church, Depot, Main and Jefferson Sts. A. D. Stivers is City Engr.

+Cœur d'Alene, Idaho—The contract for paving Second St. has been awarded to WEEKS & SEVERSON at $7500.

+Lehi, Utah—The contract for constructing 2½ miles of concrete sidewalks in District No. 6 has been awarded to FEATHERSTONE & HOLMSTEAD, Lehi.

Logan, Utah—(Official)—Bids will be received until 5 p.m., Aug. 11, for constructing concrete sidewalks is District No. 23.

Ogden, Utah—The City Commissioners have ordered sidewalks to be built in District No. 132. An approximate cost of the work is $10,000.

+Salt Lake City, Utah—The contract for paving Eighth West St. has been awarded to G. A. HERMAN at $121,998. Noted July 23.

Clifton, Ariz.—Bids will be received by the Board of Supervisors, until Aug. 17 for constructing three miles of road from Clifton to Solomonville. The approximate cost of the work is $45,000.

Seattle, Wash.—Bids will be received by the King County Commissioners until Aug. 10 for constructing the Redmond-Snoqualmie Road, Tokul Creek Branch.

Bids will be received by the Board of County Commissioners until 10 a.m., Aug. 17, for constructing the Mercer Island Road.

+Seattle, Wash.—The City Council has awarded contracts for grading and paving Melrose Ave., to the SPARGER CONCRETE CO., at $18,097; and East First St. to the ELLIOTT CONSTRUCTION CO., at $5398.

The contract for constructing Permanent Highway, No. 6, has been awarded to SLOANE BROS. at $48,500.

Oregon City, Ore.—The City Engineer is preparing plans for the paving of Main St.

+Los Angeles, Calif.—The contract for improving Lakeshore Ave. from Glendale Ave. to Reservoir St. has been awarded to the CALIFORNIA-ARIZONA CONSTRUCTION CO.. Brockman, at $29,393.

+Pomona, Calif.—Contracts have been awarded for paving East Holt and South Garey, West Second and Oak Aves. and First St. to G. H. OSWALD at $83,053 and Lordsburg Road, North Gary and San Antonio Aves. to BUSHEAR BURNS CO. at $85,604. Noted July 9.

Red Bluff, Calif.—An election will be held, Aug. 25, to vote on the proposition of issuing $200,000 of bonds to construct roads and bridges in various parts of Tehama County.

Sacramento, Calif.—Bids will be received until Aug. 24, by the State Highway Commission, 515 Forum Bldg., for the following road construction: Colusa County, from Berlin to Colusa Junction; Sacramento County, from Folsom to the County boundary; Solano County, from Vacaville to Batavia; San Bernardino County, from Divide to Orcutt and from Stony Creek to El Capital; Kern County, from southerly boundary to Ross Station; San Louis Obispo County, from Atasoadero to Paso Robles; Orange County, from Irvine to Santa Ana, and Los Angeles County, from Castail School to Section 17. Wilson R. Ellis is Secy. of the Comn. Austin B. Fletcher is State Engr.

+San Diego, Calif.—Contracts have been awarded for paving Highland Ave. and other streets in the eastern part of the city to E. A. McALPIN, at $13,275.

Ottawa, Ont.—The contract for grading Section 2 of the Banff-Castle Highway and Section 4 of the Castle-Vermilion Highway has been awarded to B. J. REDDICK, Calgary, Alta.

+Vancouver, B. C.—The contract for paving Columbia St. has been awarded to the HASSAM PAVING CO., at $90,000.

INDUSTRIAL WORKS

Old Town, Maine—The Old Town Canoe Co., will erect a five-story, 250x300-ft. addition to its factory. This will double its present capacity.

+Derby Line, Vt.—The contract for the erection of two manufacturing buildings for the Union Twist Drill Co., of Worcester, Mass., was awarded to LOOMIS, DAKIN, LTD., Sherbrooke, Que. Frost & Chamberlain, States Bldg., Worcester, Mass., are the Archs.

+Chicopee, Mass.—The Dwight Mfg. Co. has awarded a contract for additions to its mills to the CASPER RANGER CONSTRUCTION CO., Holyoke, Mass. The estimated cost is $100,000.

Lowell, Mass.—The Hamilton Mfg. Co. plans to construct additions to its mills which will cost $500,000.

Norfolk Downs, Mass.—Means & Thatcher, 6 Custom House St., Boston, have plans in progress for building a three-story, 45x197-ft. paint factory. C. Loising, 53 State St., Boston, is the Arch.

+Providence, R. I.—The contract for the construction of a five-story, reinforced-concrete warehouse for the Belcher & Loomis Hardware Co., has been awarded to NORCROSS BROS., Worcester. The estimated cost is $60,000. Eugene B. Whipple is the Arch.

Washington, R. I.—The Livingston Worsted Co., will erect a two-story, 65x110-ft. mill addition, also a 56x200-ft., brick weaving factory.

New Haven, Conn.—The Kolynos Co., 180 Meadow St., has purchased a site on Bristol St. where a new factory will be erected.

New Haven, Conn.—The Winchester Repeating Arms Co. will build a $12,000 addition to its factory on Winchester Ave. It will be 21x45 ft., three stories high and of brick and steel. L. W. Robinson is the Arch.

Rockville, Conn.—The James J. Regan Mfg. Co. has had plans prepared for the construction of a four-story, 72x200-ft mill at its Saxony plant J. Harry McCray, 18 North Park Ave., is the Arch.

Buffalo, N. Y.—The Commercial Elevator Co., is having plans prepared for a grain elevator to be erected at the foot of Michigan St. on the outer harbor. The estimated cost is $450,000. Lunham & Moore, Chamber of Commerce Bldg., Buffalo, are the Archs.

Canandaigua, N. Y.—The Lisk Mfg. Co. will erect a one-story, 100x200-ft. reinforced-concrete addition to its factory. Leon Stern, Rochester, is the Arch.

Dunkirk, N. Y.—The Continental Heating Co. is having plans prepared for the erection of a plant in this city which will cost $35,000.

+Gloversville, N. Y.—S. Sanford & Sons, manufacturer of carpets, has awarded a contract to JOHN J. TURNER & SONS, for the erection of a one-story, 60x100-ft. addition to its plant. The estimated cost is $10,000.

Mt. Vernon, N. Y.—The Benford Mfg. Co. will build a $20,000 factory on Pearl St. Sigmund A. Guttenburg is the Arch. Estimated cost, $20,000.

Schenectady, N. Y.—The General Electric Co., has had plans prepared for the erection of three factories at its plant in this city: One story, 48x145 ft.; one story, 40x90 ft.; two stories, 14x220 ft. The estimated cost is $56,000.

+Syracuse, N. Y.—The E. R. Caldwell & Son Brass Co. has let a contract to D. W. NICHOLSON, 514 Turtle St., for building a brick factory and machine shop. The contract price is $16,500.

+Dover, N. J.—The LACKAWANNA STEEL CO., Buffalo, N. Y., has been awarded the contract for supplying the structural steel to be used in rebuilding the plant of the Richardson & Boynton Co.

+Jersey City, N. J.—H. D. BEST & CO., 320 Fifth Ave., New York, N. Y., has been awarded the contract for erecting a reinforced concrete abbatoir and packing plant at the foot of Communipaw Ave. at $174,500.

McKeesport, Penn.—Local press reports state that the McKeesport Tinplate Co., has prepared plans which will double the capacity of its plant. The new plans call for 20 mills. The estimated cost is $2,000,000.

+Newark, N. J.—Samuel Jones & Co. have awarded a contract to FRED KILGUS, 13 State St., Newark, for the construction of a one-story, 50x130-ft. brick and reinforced-concrete factory. Estimated cost, $10,000.

+The Celluloid Co., 290 Ferry St., has awarded a contract to A. H. CLARK & SONS, Newark, for building a two-story, 52x130-ft. factory. The estimated cost is $16,000. Noted July 30.

Nicetown, Penn.—The George W. Blabon Co. will receive estimates on a five-story, 75x275-ft. reinforced-concrete building. Ballinger & Perrot, 1211 Arch St., Philadelphia, Penn., are the Archs.

Philadelphia, Penn.—Borzner & Wood, Archs., 711 Walnut St., are preparing plans and specifications for a six-story reinforced concrete factory, to be erected at Seventh and Filbert Sts., for H. Burnstein.

Philadelphia, Penn.—Bids will be received by the Fairmount Electric Mfg., Co., 2203 Pearl St., for the erection of a two-story, 45x100-ft. factory, to be erected at 59th St., and Woodland Ave. Harry Parker, Drexel Bldg., is the Arch.

+Philadelphia, Penn.—John T. Lewis & Bros. Co., Lafayette Bldg., has awarded to the UNITED CONSTRUCTION CO., New Stock Exchange Bldg., Philadelphia, the contract for erecting a three-story, 48x118-ft. factory. The estimated cost is $35,000.

Pittsburgh, Penn.—Rosenbaum Co. is having plans prepared for the construction of a six-story fireproof warehouse, to be erected at Duquesne Way and Evans Alley. The cost will be $100,000. Hunting & Davis, Farmers Bank Bldg., Pittsburgh, are the Archs.

Wilkes-Barre, Penn.—The Lehigh & Wilkes-Barre Coal Co. is having plans prepared for erecting colliery shops which will cost $300,000. Sturdevant & Poggi, Coal Exchange Bldg., are the Archs.

+Newport, Del.—The Krebs Pigment & Chemical Co. has let the contract for building its new factory to the BENJAMIN F. BENNET BUILDING CO., Baltimore, Md. The estimated cost is $35,000.

Baltimore, Md.—The United States Woolen Mills Co. is having plans prepared for the erection of a seven-story reinforced-concrete factory, to be located at 511 West Fayette St. The estimated cost is $150,000. Louis Levi, Baltimore, is the Arch. Noted July 23.

Cambridge, Md.—Plans have been completed by Arthur Towne, 708 Linwood Ave., Tuxedo Park, Baltimore, for the construction of a two-story, 50x150-ft. factory for the Phillips Can Co. The plant will have a daily capacity of 250,000 cans.

+Charlotte, N. C.—The contract for constructing a four-story, 100x600-ft. brick warehouse, for the Mercantile Development Co., has been awarded to the TRAVERS-WOOD CO., Richmond, Va. The cost of the building will be $225,000.

Cleveland, Ohio—The Burns-Bowe Baking Co. has had plans prepared by Lehman & Schmidt, Garfield Bldg., Cleveland, for an addition to its plant at 2919 Clinton Ave., to cost $12,000.

+The contract for the construction of a three-story, 66x110-ft. brick, bottling works on Davenport St., for the Gund Brewing Co., has been awarded to the GEORGE B. McMILLAN CO., 1794 East 55th St., Cleveland.

The Warren Refining Co., Cleveland, has had plans prepared by Ernest McGurge, for a three-story, 80x107-ft., factory to be erected on West St.

+Columbus, Ohio—The Columbus Die & Tool Works has awarded a contract for building a one- and two-story machine shop addition to its factory at 955 Cleveland Ave., to J. C. DAVISON, Columbus. The improvement will cost $25,000 Noted July 2.

East Cleveland, Ohio—The F. B. Stearns Co., manufacturer of automobiles, is having plans prepared for the erection of two factories. One will be four stories, 70x157 ft.; the other a five-story, 70x155-ft. reinforced concrete structure. The estimated cost of the buildings is $20,000. Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, Mich., are the Engrs.

+Warren, Ohio—The contract for the construction of a three-story, 150x300-ft. factory at Warren, for the Cleveland, Chicago, Car Roofing Co., has been awarded to JAMES L. STUART, 1008, New England Bldg., Cleveland.

Youngstown, Ohio—The directors of the Fisher Fireproof Storage Co. have announced that plans are being prepared for a warehouse to be erected in the North Hill section. The estimated cost is $75,000.

Detroit, Mich.—Strand Bridge & Conners, will build a two-story, 90x110-ft. factory to cost $50,000. F. E. Britherton, 2901 East Grand Blvd., is the Arch.

The Utility Power Co., will receive estimates until Oct. 1, for the construction of a four-story, 98x600-ft. factory to cost about $300,000. Preston, Brown & Walker, 1932 Dime Bank Bldg., Detroit, are the Archs.

Detroit, Mich. — Dodge Bros., automobile manufacturers, will make additions to its plant which will cost $1,000,000. An assembling plant and a punch-press building are the additions to be erected. A. L. Means is the Secy.

Lansing, Mich.—D. B. Moore, Arch., 200 Tussing Block, is preparing plans for a three-story, 56x114-ft. factory for the Michigan Screw Co. Estimated cost, $40,000.

Milwaukee, Wis.—Bids will be asked for constructing and equipping three machine shop buildings for the Milwaukee County House of Correction, at North Milwaukee, Wis. In addition, the plans call for 12 reinforced-concrete structures. The construction work will cost $550,000. Louis G. Widule is County Clerk. Leenhouts & Guthrie, Milwaukee, are the Archs.

+Sioux City, Iowa—The Blue Valley Creamery Co. has let a contract to C. R. HOUX, Second and Water Sts., Sioux City, for building a four-story, 76x150-ft. addition to its creamery. The contract price is $25,000.

Fargo, N. D.—The Ford Motor Co., Detroit, Mich., contemplates building an assembling and distributing plant in this city.

Great Falls, Mont.—It is reported that the Anaconda Copper Mining Co., Anaconda, Mont., will install a new copper refinery at Great Falls, Mont., to handle part of the copper now being shipped to Perth Amboy, N. J. The plant will have a capacity of about 10,000,000 lb. of copper per month and is estimated to cost about $700,000.

+Great Falls, Mont.—The contract for the erection of the factory for the Brazier Candy Mfg. Co. was awarded to HENRY ROONEY. It will be 2 stories and basement, of brick and will be located near Tenth Ave. and Fifth St. The estimated cost is $20,000.

+Miles City, Mont.—The Eastern Montana Brewery Co. has awarded to C. H. WESTERN, the contract for constructing its plant in this city. The successful bid was $32,000.

St. Joseph, Mo.—The National Spring Wheel Co. will erect a plant for the manufacture of motor car wheels at an estimated cost of $100,000.

St. Louis, Mo.—The Superior Oxygen Co., has purchased a site, and will erect a factory on Plum St. The estimated cost is $35,000.

Galveston, Tex.—The O. K. Laundry Co., 20th and Post Office Sts., will erect a two-story addition to its laundry to cost $20,000.

Tulsa, Okla.—Local press reports state that the city of Tulsa will build a soap factory to cost $30,000.

Tucson, Ariz.—J. J. Garfield, will build a commercial garage and machine shop on Sixth Ave. Estimated cost, $19,000. H. O. Jaasted, Tucson, is preparing plans.

Seattle, Wash.—Otto Wendland, 2222 Eighth Ave., will build a steam laundry at 714 Broad St., estimated to cost $15,000. Carl Siebrand, Arcade Bldg., Seattle, is the Arch.

Seattle, Wash.—The Pacific Coast Pipe Co., has completed plans for constructing a reinforced concrete and steel addition to its plant. The estimated cost is $40,000. L. M. Grant is the Engr.

The Dalles, Ore.—Libby, McNeil & Libby, Chicago, Ill., plan to erect a canning plant at an estimated cost of $75,000. Henry A. Ellis, Sacramento, Calif., is representative.

Los Angeles, Calif.—Norman F. Marsh, Broadway Central Bldg., has been commissioned to prepare plans for the factory and community buildings for the Nomel Co., at South Pasadena. Martin M. Kallman is Pres.

Brockville, Ont.—The James Smart Mfg. Co. will replace the building recently burned. It will be of reinforced concrete and cost about $15,000.

Toronto, Ont. — Duncan Chisholm, a Toronto capitalist, has obtained a concession to erect a pulp and paper mill at Smooth Rock Falls, on the Metagami River. The daily capacity will be 150 tons. The estimated cost is $1,750,000.

FEDERAL GOVERNMENT WORK

Concrete Coal Pockets—Fort Williams, Maine—Bids were received, July 29, by Capt. C. O. Zollars, Constructing Quartermaster, for concrete coal pockets at Fort Williams, as follows: (a) 60x90 ft., (b) 50x90 ft. Simpson Bros. Corporation, (a) $14,603, (b) $13,000, and on their own plans at $10,430; Forgione & Romano, Portland, Maine, (a) $13,722, (b) $12,922; Sanders Construction Co., Portland, Maine, (a) $14,624, (b) $13,624; Small & Ingalls, Bar Harbor, Maine, (a) $19,513, (b) $17,135; Mahoney Bros., Boston, Mass., (a) $16,150, (b) $14,103; W. H. Ellis & Son Co., Boston, Mass., (a) $17,975, (b) $16,475; F. H. Marshall, South Portland, Maine, (a) $15,414, (b) $12,845; Guarantee Construction Co., New York, (a) $22,480, (b) $19,980.

Lighting Fixtures—Boston, Mass.—Bids will be received until 3 p.m., Aug. 21, by Oscar Wenderoth, Superv .Arch., Treasury Dept., Washington, D. C., for furnishing and installing lighting fixtures in the U. S. custom house at Boston, Mass.

Buoy Service,—Buffalo, N. Y.—Bids will be received until 2 p.m., Aug. 10, by the Light House Inspector, Buffalo, N. Y.. for attendance, removal and replacing of all U. S. buoys in the St. Lawrence River and Lake Ontario from Aug. 15, 1914, to June 30, 1915.

Post Office—Port Jervis, N. Y.—Bids will be received until 3 p.m., Sept. 14, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of the U. S. post office at Port Jervis, N. Y. It will be a one-story mezzanine and basement building, ground area 4800 sq.ft.; first floor fireproof; stone and brick facing with ornamental terra cotta cornice, etc.

✚Post Office—Orange, N. J.—The contract for the construction of a post office at Orange has been awarded to JOSEPH DI BENEDETTO, 423 East 115th St., New York, N. Y., at $81,949. Noted July 16.

★Cables, Conduits, Manholes, Etc.—Washington, D. C.—Bids will be received until 2 p.m., Aug. 25, by the Secy., Dept. of the Interior, Washington, D. C., for installing cables, conduits, manholes, switches, circuit breakers, etc., and connecting same ready for use in F St. Northwest and in the old Post Office and Pension Office buildings, Washington, D. C.

★Pavements, Conduits, Manholes, Etc.—Washington, D. C.—Bids will be received until 2 p.m., Aug. 18, by the Secy., Dept. of the Interior, Washington, D. C., for the construction of cement pavements, conduits and manholes in the Seventh St. and G St. basement corridors of the Patent Office Building.

Switchboard—Washington Barracks, D. C.—Bids were received by Lieut. Col. Joseph E. Kuhn, Corps Engrs., U. S. A., for furnishing one direct current 16 panel switchboard as follows: General Electric Co., Schenectady, N. Y., $4419, Westinghouse Electric Co., Washington, D. C., $5772 and $5802, Walker Electric Co., Philadelphia, Penn., $3875, $4030, $4125, $4280, $3945, $4100, $4195 and $4350; F. Bissell Co., Toledo, Ohio, $4800, $5580 and $4965; Elliott Lewis Electric Co., Inc., Philadelphia, Penn., 5930; Taunton New Bedford Copper Co., New Bedford, Mass., $4355, $4715 and $4235; H. Krantz Mfg. Co., Brooklyn, N. Y., $3900; Albert and J. M. Anderson Mfg. Co., Boston, Mass., $4855; Le Baron B. Johnson 316 West 42nd St., New York, $5854 and $5399; Frank Adam Electric Co., St. Louis, Mo., $4245, $4538 and $5301, Pringle Electric Mfg. Co., Philadelphia, Penn., $5348 and $5016. Noted July 9.

✚Boiler House—Fort Monroe, Va.—Contracts for the construction of a boiler house, etc., at Fort Monroe have been awarded as follows: Constructing boiler house and taking down old boiler house, etc., to ALEXANDER WESTON, Hampton, Va., at $3790, boilers, pumps, new heating system, etc., to W. G. MORRIS, Phœbus, Va., at $9820.

★Cement—Montgomery, Ala.—Bids will be received until Aug. 31, by Maj. Earl I. Brown, Corps Engrs., U. S. A., 910 Bell Bldg., Montgomery, for furnishing and delivering about 20,000 bbl. of American portland cement.

Post Office—Cookeville, Tenn. — Bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., July 30, for construction of a post office at Cookeville, (a) limestone; (b) sandstone: William H. Fissell, New York, N. Y., (a) $72,200; (b) $73,000. Ragland-Baxter-Morford Co., Nashville, Tenn., (a) $73,970; (b) $74,470. James Devault, Canton, Ohio, (a) $76,500; (b) $77,900. Westchester Engineering Co., White Plains, N. Y., (a) $78,432; (b) $78,832. George W. Stiles Construction Co., Chicago, Ill., (a) $79,200; (b) $80,000. George Becking, Chattanooga, Tenn., (a) $79,241; (b) $80,241. N. H. Shields, Danville, Ill., (a) $79,660. M. Yeager & Co., Danville, Ill., (a) $79,923; (b) $81,423. J. S. Rogers Co., Moorestown, N. J., (a) $84,600; (b) $85,200. Christ Kanzler & Son, Evansville, Ind., (a) $84,911; (b) $85,400. Wise Granite & Construction Co., Richmond, Va., (a) $87,500; (b) $88,400. Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $87,517; (b) $88,117. The building will be three-story and basement, ground area, 5000 sq.ft., first floor fireproof, stone, ornamental terra cotta and brick facing, composition and slate roof. Noted June 25.

★✚Drilling for Foundation—Nashville, Tenn.—The contract for drilling for subsurface investigation of foundations at Dam Sites, Nos. 2 and 3, Muscle Shoals, Tennessee River, has been awarded to SPRAGUE & HENWOOD, INC., Scranton, Penn., at $40,430. Noted July 30.

Post Office—Three Rivers, Mich.—Bids were received as follows by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Three Rivers, (a) limestone; (b) sandstone: A. W. Lane, Chicago, Ill., (a) $42,104; (b) $45,329. C. W. Hoertz & Son, Grand Rapids, Mich., (a) $44,449; (b) $44,800. J. S. Rogers & Co., Moorestown, N. J., (a) $47,500; (b) $47,840. Ralph F. Reed, Three Rivers, Mich., (a) $47,200; (b) $47,675. Thomas W. Cissell, Wooster, Ohio, (a) $50,000; (b) $51,000. General Construction Co., Milwaukee, Wis., (a) $44,760; (b) $45,159. It will be a two-story and basement building, stone and brick facing, 4000 sq.ft., ground area, fireproof first floor, composition roof. Noted June 25.

✚Breakwater—Calumet River, Ill.—The contract for repairing with timber, superstructure of the breakwater at Calumet River, has been awarded to the GREAT LAKES DREDGE & DOCK CO., Chicago, Ill., at $29,132. Noted July 23.

✚Stone—Milwaukee, Wis.—The contract for furnishing and delivering 3600 tons of stone riprap at White Shoal light station, Lake Michigan, has been awarded to T. L. DUROCHER, Sault Ste. Marie, at $5400. Noted July 23.

Lighting Fixtures—Minneapolis, Minn.—Bids will be received until 3 p.m., Aug. 21, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for furnishing and installing lighting fixtures in the U. S. post office at Minneapolis, Minn.

Post Office—Garden City, Kan.—Bids were received as follows, July 28, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Garden City, (a) limestone; (b) sandstone: Dieter & Wenzel Construction Co., Wichita, Kan., (a) $51,358; (b) $52,300. George A. Shaul, Seneca, Kan., (a) $51,365. Frank H. Latimer & Co., Kansas City, Mo., (a) $53,847. Hiram Lloyd Building and Construction Co., St. Louis, Mo., (a) $54,763; (b) $55,763. The building will be one-story and basement, ground area, 3800 sq.ft., first floor fireproof, stone and brick facing, with ornamental terra cotta cornices, and composition roof. Noted June 25.

★Highway Bridge—Jackson, Wyo.—Bids were received July 22, by F. H. Newell, Dir., U. S. Reclamation Service, Boise, for constructing a highway bridge, consisting of three 130-ft. steel truss spans and wooden trestle approaches, across the south fork of the Snake River, near Jackson, Wyo., as follows: (a) Jackson site, (b) Gros Ventre site, (1) total for regular schedules, (2) total for alternates—Omaha Structural Steel Works, Omaha, Neb., (1) (a) $35,778, (2) (a) $26,997, (b) $26,765; Central States Bridge Co., Indianapolis, Ind., (1) (a) $9711 for schedule No. 1 only, (1) (b) $9082 for schedule No. 1 only; Security Bridge Co., Billings, Mont., (1) (a) $36,115, (2) (a) $28,039, (1) (b) $29,180; Midland Bridge Co., Kansas City, Mo., (1) (a) $39,646, (2) (a) $28,056, (1) (b) $30,930; Minneapolis Steel & Machinery Co., Salt Lake City, Utah, (1) (a) $9163 for schedule No. 1 only, (b) $8478 for schedule No. 1 only. Noted June 25.

✚Water and Sewer System—El Paso, Tex.—The quartermaster general has awarded the contract for a water and sewer system on government property at El Paso, to MAYFIELD & SHAW, at $15,160.

Stone—Galveston, Tex.—Bids will be received until noon, Aug. 15, by Lieut. Col. C. S. Riche, Corps Engrs., U. S. A., for placing riprap and soil with sod at federal quarantine station, Galveston, Tex.

Lighting Fixtures—Muskogee, Okla.—Bids will be received until 3 p.m., Aug. 21, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for furnishing and installing lighting fixtures in the U. S. courthouse and post office at Muskogee, Okla.

✚Earthwork—Denver, Colo.—The contract for constructing the Selig Canal on the Uncompahgre Irrigation Project, has been awarded to MAURICE A. WOGAN, Denver, Colo., at $26,956. The work involves the excavation of about 144,000 cu.yd. of material.

✚Post Office—Greeley, Colo.—The contract for the construction of a post office at Greeley has been awarded to J. H. WEISE, Omaha, Neb., at $99,315. Noted July 9.

Canal—Montrose, Colo.—Bids will be received until 4 p.m., Aug. 13, by Fred D. Pyle, Project Mgr., U. S. Reclamation Service, Montrose, Colo., for constructing the Cade Lateral, Laterals, Nos. 1 and 2 and the Garnet Mesa lateral of the Cade and the Union lateral, of the East Canal system, Uncompahgre Valley project, in the vicinity of Delta, Colo This work involves the excavation of about 148,400 cu.yd. of material in open cut.

✚Road Work—Fort Huachuca, Ariz.—The contract for road work at Fort Huachuca, has been awarded to R. C. SPARKS and J. H. FRITZ, Tucson, Ariz., at $9780.

✚Road—Fort Stevens, Ore.—The contract for constructing roads and walks at Fort Stevens, Ore., has been awarded to OLAF BOREN, at $8200.

★Generator—Los Angeles, Calif.—Bids were received July 14, by F. H. Newell, Dir., U. S. Reclamation Service, Los Angeles, Calif., for furnishing one vertical alternating current generator for the Roosevelt Power plant, Salt River project, Ariz., as follows: General Electric Co., Schenectady, N. Y., $21,694; Westinghouse Electric & Mfg. Co., Los Angeles, Calif., $24,000, and $22,820; Allis Chalmers Co., Milwaukee, Wis., $23,160. Noted June 11.

★Head Turbine—Los Angeles, Calif.—Bids were received July 14, by F. H. Newell, Dir., U. S. Reclamation Service, for furnishing a variable head turbine for the Salt River project, Arizona, as follows: (a) one variable head turbine with governor and synchronous by-pass, (b) one variable head turner with governor, synchronous by-pass and butterfly valve, S. Morgan Smith Co., York, Penn., (a) $18,185, (b) $20,085; Pelton Water Wheel Co., San Francisco, Calif., (a) $26,060, (b) $27,340. Noted June 11.

Lighting Fixtures—San Francisco, Calif.—Bids will be received until 3 p.m., Aug. 21, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for furnishing and installing lighting fixtures in the U. S. subtreasury at San Francisco.

Shell Hoists, Powder Hoists, Etc.—Panama—Bids will be received until 10:30, a.m., Aug. 17, by Maj. F. C. Boggs, Corps Engrs., U. S. A., Washington, D. C., for furnishing shell hoists, powder hoists, shell tables, motor driven pumps, and front switches for fortifications, at Panama.

Building—San Juan, Porto Rico—Bids will be received until 2 p.m., Aug. 31, by the Lighthouse Inspector, San Juan, for furnishing and erecting three iron substructures on concrete piles, San Juan Harbor.

MISCELLANEOUS

Tunnel—Boston, Mass.—(Official)—Bids will be received until noon, Aug. 13, by the Boston Transit Commission for constructing Section D of the Dorchester Tunnel. The section is located in Dewey Sq. and Summer St., and will be 800 ft. long. For details see advertisement under "Contracts to be Let."

Dredging—Boston, Mass.—Bids were received July 28, by the State Harbor and Land Commissioners, Boston, for dredging at Cataumet Harbor and Squeteague Pond, about 100,000 cu.yd. The bids follow: J. S. Packard Dredging Co., Providence, R. I., Item (1), 34.29c. per cu.yd.; Item (2), $9; Item (3), 36c.; Bay State Dredging Co., (1) 35.5c., (2) $9, (3) no bid; John R. Burke, (1) 36⅜c., (2) $10, (3) no bid; Eastern Dredging Co., (1) 37c., (2) $10, (3) 37c.

Elevators—Boston, Mass.—The State House Extension Committee has received bids for installing elevators. The lowest bid was submitted by the Portland Co., at $33,700.

✚Fire Apparatus—Boston, Mass.—The city has awarded contracts for fire apparatus as follows: To the ROBINSON FIRE APPARATUS CO., St. Louis, Mo., for one pumping engine, two tractors and one 65-ft. ladder truck, at $23,750; to the SEAGRAVE CO., Columbus, Ohio, for one aërial truck, at $11,000; to the AMERICAN & BRITISH MFG. CO., Providence, R. I., for a tractor and a deck gun, at $5600. John Grady is Fire Comr.

Park Work—Fall River, Mass.—A. A. Allen, Fall River, has submitted the lowest bid to the city for improving Lafayette Park, at $29,688.

✚Comfort Station—Bridgeport, Conn.—The city has awarded the contract to A. W. BLYCHER, 14 Davidson St., Bridgeport, for the construction of a comfort station at Beardsley Park. Noted Apr. 23.

Barge Canal Work—Albany, N. Y.—Bids were received, June 28, by Duncan W. Peck, State Supt. Pub. Wks., Albany, for steel sheet piling, etc. (Contract No. 19), at the movable dam at Rotterdam, N. Y., and reinforcing the superstructure (Contract No. 120) of the movable dams at Rotterdam, Cranesville, Amsterdam, Tribes Hill, Yosts, Canajoharie and Fort Plain, N. Y. The bids follow: Contract No. 119: Holler & Shepard, Rochester, N. Y., $58,073; Frank M. Skene, Brockport, N. Y., $62,212; Walsh Construction Co., Davenport, Iowa $60,986; Lupfer & Remick, Buffalo, N. Y., $68,471; John M. Rogers, Tonawanda, N. Y., $70,610. Contract No. 120: Whitehead-Kales Iron Works, Detroit, Mich., $265,954; Lupfer & Remick, $299,460; Fort Pitt Bridge Works, New York, N. Y., $287,994; Penn Bridge Co., Beaver Falls, Penn., $268,926.

✚Dike—Binghamton, N. Y.—The Board of Contract and Supply has awarded contracts for the First Ward Dike as follows: Section 1, to H. W. FITZGERALD, Rochester, N. Y.; Section 2, to BARRELLY & INGERSOLL, Rochester. Estifated cost, $70,000. Noted June 25.

Repairs to Pier—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until noon, Aug. 14, by the Department of Docks and Ferries, for repairs to the pier at East 117th St., Harlem River, Manhattan.

Subway—(Special Work)—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 12:15 p.m., by the Public Service Commission, 154 Nassau St., Manhattan, for special work on portions of the Broadway-Fourth Ave. rapid transit railroad, Brooklyn.

Street Signs—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 7, by Marcus M. Marks, Pres. Borough of Manhattan, for 1000 street signs, container frames and ornamental section to be of malleable cast iron with clamps of rolled steel; or 1000 street signs, container frames, ornamental section and clamp to be of rolled steel.

✚Subway—(Station Finish)—New York, N. Y.—(Borough of Brooklyn)—The Public Service Commission, July 30, awarded the contract to the STATION CONSTRUCTION CO., New York, for station finish on Sections 1 and 2, Route 11-B, a part of the Broadway-Fourth Ave. rapid transit railroad, Brooklyn, at $251,134. Bids were opened July 23. List of bidders noted July 30.

✚★Subway—New York, N. Y.—(Borough of Manhattan)—The Public Service Commission has awarded the contract to the DEGNON CONTRACTING CO., 30 East 42d St. New York, for constructing Section 5, Routes Nos. 4 and 36, a part of the Broadway-Fourth Ave. Subway, at $2,819,511. The work calls for a two-track subway in the Borough of Manhattan, connecting the Broadway Subway with the Queensboro Bridge, and extending from Seventh Ave. to Fifth Ave., where the two tracks diverge, one continuing through 59th St. and the other through 60th St. to the bridge. Bids were opened July 24. List of bidders noted July 30.

★Subway—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until Aug. 21, by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for constructing Sect. No. 3 of Route 32, a part of the Broadway-Fourth Ave. and Seventh Ave.-Lexington Ave. rapid transit railroads. This section is a two-track railroad in the Borough of Brooklyn, with two branches, one branch connecting the Whitehall-Montague St. tunnel with the Fourth Ave. subway in Flatbush Ave. extension at Prince St.; the other connecting the Old Slip-Clark St. tunnel with the existing subway at Fulton and Willoughby Sts.

★Fireproof Stairways—Poughkeepsie, N. Y.—(Official)—Bids will be received until 3 p.m., Aug. 10, by the State Hospital Commission, Albany, for fireproof stairways for Edgewood Building at the Hudson River State Hospital, Poughkeepsie. J. H. B. Hanify is Secy. Comn.

Dams, River Work—Rochester, N. Y.—Bids will be received until 11 a.m., Aug. 12, by F. X. Piper, Secy. Bd. Contract and Supply, for constructing movable dams and deepening the Genessee River.

★Laundry Equipment—Rochester, N. Y.—(Official)—See item under "Sewers."

Bulkhead and Jetty—Stone Harbor, N. J.—The Borough Council plans to construct a bulkhead and jetty. Estimated cost, $65,000.

Park Work—Trenton, N. J.—The City Commission, July 29, rejected all bids for work in the city's section of Mahlon Stacy Park. New bids will be asked. Estimated cost, $20,000. J. R. Fell, Jr., is City Engr. Noted July 30.

✚Park Work—Chester, Penn.—The city has awarded the contract to JOHN HANNA & SONS, Chester, for park work at the Alfred O. Deshong Memorial Park, at about $23,000. The work calls for excavation at the lake, a concrete bridge and walks and drives.

✚Fountain—Pittsburgh, Penn.—The city has awarded the contract to VICTOR D. BRENNER, New York, for the proposed fountain to be erected to the memory of Mrs. Mary E. Schenley at the entrance to Schenley Park, at $50,000.

Elimination of Grade Crossing—Scranton, Penn.—The county, in conjunction with the Delaware & Hudson Co. and the Erie R.R. Co., plans to eliminate the grade-crossing at Turkey-Hill, Simpson Borough, by constructing a viaduct. Estimated cost, $68,000.

Pier—Rehoboth Beach, Del.—Robert Hinckley, Washington, D. C., is considering the construction of a pier at Rehoboth Beach, to cost $50,000.

Canals—Cambridge, Md.—Bids will be received by the Dorchester County Commissioners, Cambridge, for constructing several canals. Estimated cost, $60,000.

Ditches—Indianola, Miss.—Bids will be received until 2.30 p.m., Aug. 18, by the Drainage Commissioners of Sunflower County, Indianola, for nine miles of open ditches, calling for 275,000 cu.yd. of excavation. H. Lee Herring, Ruleville, Miss., is Atty. for the district.

Wire and Cable—New Orleans, La.—Bids will be received until Aug. 30 by the Sewerage and Water Board for Contract 64-D, which calls for furnishing wire and cable. This is an extension of time from July 30. George G. Earl is Gen. Supt. Bd.

★✚Dredging—New Orleans, La.—(Official)—Bids were received, July 20, by the Comissioners of the Port of New Orleans, for dredging in the Mississippi River, filling and clearing site for cotton warehouses and terminal facilities between the Mississippi River and Leake Ave. and between Napoleon Ave. and Souiat St. The contract has been awarded to the LOUISIANA CONTRACTING CO., 612 Roumain Bldg., New Orleans, at about $180,000. The work calls for 2,000,000 cu.yd. of filling, and 90 acres of clearing. O. O. Ogden, Treas.-Gen. Mgr. of the company is in charge of the proposed work.

✚Levee—New Orleans, La.—The State Board of Engineers, New Orleans, has awarded the contract to GIBSON BROS., New Orleans, for constructing the Poydras-Goodwill Levee, at 18.3c. per cu.yd. The work calls for 80,000 cu.yd.

Canal and Road—St. Bernard, La.—The Police Jury has rejected the bid of Doullut & Williams, at $6,000, for constructing a navigable canal to connect Bayou Terre-aux-Boeuf and Lake Bargne, and for a shell road parallel to the canal. This firm was sole bidder. New bids will be asked.

Ditches—Henderson, Ky.—The Drainage Commissioners, Henderson, have decided to issue bonds for the purpose of constructing Double Dam Ditch and Swan Pond Ditch.

Stockyards—Louisville, Ky.—The Bourbon Stock Yards, recently damaged by fire, will be rebuilt of reinforced concrete. The estimated cost is $200,000. D. X. Murphy & Bro. are the Archs.

✚Barges—Paducah, Ky.—The Paducah & Illinois R.R. has awarded the contract to the WEST KENTUCKY COAL CO., Paducah, for constructing six barges, at about $12,000.

Freight Terminal—Cleveland, Ohio—Plans have been prepared for a freight terminal to be erected at Hill Ave. and East Ninth St. for the New York, Chicago & St. Louis Ry. The estimated cost is $500,000.

★Excavation, etc.—Cleveland, Ohio—(Official)—Bids will be received until noon, Aug. 13, by A. R. Callow, Comr. Purchases and Supplies, for excavating, transporting and disposing of all material necessary to prepare the present site for the construction of the proposed South Side Sewage treatment works (Contract No. 2). The approximate quantities follow: Engineer's office, complete; bridge, complete; 2900 lin.ft. of surface drain, furnishing and placing 3850 lin.ft. of 6 to 15-in. vitrified pipe; 316,000 cu.yd of excavation, transportation and disposal of material: 1800 tons of stone riprap.

Park Building—Columbus, Ohio—Bids will be received until noon, Aug. 25, by the Board of Commissioners of Franklin Park, for constructing a shelter and recreation building in Franklin Park. Clayton Cain is Secy. Estimated cost, $25,000. Noted July 16.

River Improvement—Dayton, Ohio—(Official)—The city will make river improvements in the fall, requiring about 1,200,000 yd. of earthwork.

Fire Apparatus—Tiffin, Ohio—The city plans to purchase motor-driven fire apparatus. Albert J. Hafley is Clk. of Council.

Ditch—Gary, Ind.—Bids will be received until Sept. 18 by the county for constructing the Burns Ditch. Estimated cost, $300,000. Guy Stinchfield, Valparaiso, Ind., is Engr.

Park—Gary, Ind.—The plans of Herbert Erickson, Arch., Gary, for a park at Fourth Ave. and Jackson St. have been accepted by the Board of Public Works. Estimated cost, $25,000.

Mausoleum—Richmond, Ind.—W. W. Zimmerman, Richmond, plans to construct a mausoleum in Earlham Cemetery. Estimated cost, $70,000.

+Ditch—Rochester, Ind.—The County Commissioners have awarded the contract to A. A. GAST & SON, Akron, Ohio, for constructing Clevenger Ditch, at about $10,000. Bids were opened July 7. Noted July 2.

Levee and Ditches—Terre Haute, Ind.—Bids will be received until 3 p.m., Aug. 7, by Greenfield Bayou Levee Association, Terre Haute, for 16 sections of levee and four sections of ditches.

+Levee Work—Jacksonville, Ill.—Bids were received, July 29, by the Commissioners of Meredosia Lake Drainage and Levee District, at the office of the Jacksonville Engineering Co., Jacksonville, for constructing about 174,433 cu.yd of levee and 1500 cu.yd of ditches. The contract has been awarded to the ESSEX CONSTRUCTION CO., 279 Hughes Ave., Buffalo, N. Y., at $22,590.

Natatorium—Milwaukee, Wis.—Bids will be received until Aug. 17 by the Department of Public Works for constructing a natatorium at Huron and Jackson Sts. Estimated cost, $100,000.

+Ditch—Adel, Iowa—The county has awarded the contract to W. G. BIRDSALL, Perry, Iowa, for constructing Ditch No. 30, at $11,142. Bids were opened July 7. Charles E. Wilson, Perry, is Engr.

+Ditch Work—Onawa, Iowa—The county has awarded the contract to the MULGREW-BOYCE CO., Dubuque, Iowa, for eight miles of ditches and laterals, at 12½c. per cu.yd.

Drainage—Forest City, Iowa—Bids will be received until 11 a.m., Aug. 7, by C. K. Nelson, County Audr., Forest City, for work in Drainage District No. 5, calling for 164,320 cu.yd. excavation, 110,269 ft. of tile and 21 bulkheads.

+Ditch—Blue Earth, Minn.—The county has awarded the contract to the ELMORE CEMENT & TILE CO., Elmore, Minn., for constructing Ditch No. 22, at $11,288. Noted June 18.

Stable—Duluth, Minn.—P. M. Olson, Arch., Sellwood Bldg., Duluth, is preparing plans for a stable to be constructed at Duluth for Barrett & Zimmerman, 1933 West University Ave., St. Paul. Estimated cost, $10,000.

Ditch—Duluth, Minn.—E. K. Coe, County Road Engr., Duluth, has estimated the cost of constructing Ditch No. 3 at $185,000.

Park—St. Charles, Mo.—The citizens have voted in favor of issuing $90,000 in bonds for a public park.

Dam—Marble Falls, Tex.—The city plans to construct a dam across the Colorado River, to cost $75,000.

Fire Alarm System—Port Arthur, Tex.—The citizens have voted in favor of issuing $10,000 in bonds for the installation of a fire alarm system.

+Skating Rink—Seattle, Wash.—The Seattle Arena Co., Inc., has awarded the contract to the FRANKLIN ENGINEERING CO., Hoge Bldg., Seattle, for constructing an ice skating rink at $60,000.

+Shed—Tacoma, Wash.—The Oregon-Washington R.R. & Navigation Co. has awarded the contract to O. F. LARSON, Tacoma, for constructing a one-story freight shed at Tacoma, at $50,000.

+Docks—Portland, Ore.—The contract for the construction of two docks for B. M. Lombard, each 400x120 ft., has been awarded to the ELLIOTT CONSTRUCTION CO., at about $140,000.

Cement—Portland, Ore.—Bids are being received by the City Purchasing Agent for 8000 bbl. of portland cement. John R. Hanson is City Engr.

Stockyards—Portland, Ore.—The Portland Union Stockyards Co. plans to enlarge its yards at Portland. Estimated cost, $50,000.

+Pipe Line—Bakersfield, Calif.—The Valley Pipe Line Co. has awarded the contract to the LLEWELLYN IRON WORKS, Los Angeles, for constructing a pipe line through the Coalinga and Midway oil fields, at about $70,000.

Harbor Improvement—Berkeley, Calif.—An election will be held Sept. 12 to vote on the proposition to issue $500,00 in bonds for harbor improvements.

Oil Tanks — Chico, Calif. — The Associated Oil Co. plans to install an oil-distributing station, to cost $12,000. G. Sheridan, Wells Fargo Bldg., San Francisco, Calif., is Secy.

+Pier and Wharf—Oakland, Calif.—The San Francisco-Oakland Terminal Rys. has awarded a contract at about $475,000 for the construction of a trestle mole and wharves to the SAN FRANCISCO BRIDGE CO., San Francisco, Calif., at the following prices: Creosoted piles, 52.33c. per lin.ft.; untreated lumber, $28.18 per M. ft.; creosoted timber, $61.12 per M. ft.

Oil Tanks—Richmond, Calif.—The Standard Oil Co. plans to construct 16 oil-storage tanks, at an estimated cost of $320,000.

Riprap—Sacramento, Calif.—The State Engineering Advisory Board will shortly call for bids for riprap work on the San Joaquin River, near Stockton, to cost about $34,700. Austin B. Fletcher is State Engr.

+Barges—San Francisco, Calif.—Henry Peterson has awarded a contract for the construction of seven barges to the UNION IRON WORKS, San Francisco, at $87,000.

+Civic Center Work—San Francisco, Calif.—The city has awarded the contract to T. W. McCLENAHAN, San Francisco, for improving the plaza in the civic center, at $54,860.

+Canal Work—Montreal, Que.—The Department of Public Works, Ottawa, has awarded the contract to the GENERAL IMPROVEMENT & CONSTRUCTION CO., Montreal, Que., for dredging in connection with protection works at the upper entrance of the Soulanges Canal.

+Wall—Burlington, Ont.—The Department of Public Works, Ottawa, Ont., has awarded the contract to D. G. STEWART, Ottawa, for constructing the revetment wall at Burlington, at about $90,000.

Canal—Ottawa, Ont.—Bids will be received by L. K. Jones, Asst. Deputy Minister and Secy. Dept. Rys. and Canals, Ottawa, until Aug. 17, for constructing the Bobcaygeon Section of the Trent Canal.

+Canal Work—Thorold, Ont.—The Department of Railways and Canals, Ottawa, Ont., has awarded the contract to A. T. BRADLEY, St. Catherines, Ont., and DAVID WALKER, Thorold, for stone protection necessary on the summit levee of the Welland Canal between Thorold and Port Colborne, Ont.

Coal- and Ash-Handling Plant—Winnipeg, Man.—Bids will be received until noon, Aug. 10, by C. H. Dancer, Deputy Minister Pub. Wks., Ottawa, Ont., for a mechanical coal- and ash-handling plant at the central power house at Winnipeg.

+Dredging—Vancouver, B. C.—The Department of Public Works, Ottawa, Ont., has awarded the contract to the BRITISH COLUMBIA GRANITOID & CONSTRUCTION CO., Vancouver, for dredging in connection with the proposed wharves and docks to be built at Vancouver.

BUILDINGS

+Bangor, Maine—The contract for erecting the three-story concrete, brick, granite and steel building on Harlow St., for Charles W. Morse, has been awarded to CYR BROS., Waterville, at $75,000.

+Boston, Mass.—The contract for the construction of the business block at 1126 Boylston St. has been awarded to the BOYLSTON CONSTRUCTION CO., at about $125,000. The building will be of brick and stone seven stories, 87x90 ft. T. J. Reardon, 85 Commonwealth Ave., is owner.

Springfield, Mass.—B. H. Seabury, Besse Bldg., has prepared plans for a four- and five-story brick and stone apartment on Pearl St.

+Pawtucket, R. I.—The contract for constructing the 12-room school in the Darlington Section has been awarded to the FRANK E. ROWLEY CO., Pawtucket, at $64,675. Noted July 23.

Providence, R. I.—The National Realty Trust will build a theater at Worcester and Clemence Sts., to cost about $40,000. H. Williams is Mgr.

Bridgeport, Conn.—The Bridgeport Trust Co. has awarded the general contract for constructing the bank on State St. to the T. J. STEIN CO., 30 Church St., New York, N. Y., at about $75,000. The structure will be 40x100 ft. of brick, marble and granite. G. A. Freeman, 311 Madison Ave., New York N. Y., is the Arch.

Bids will be received by Henry A. Bishop, Pres., Brooklawn County Club for constructing a stone and wood clubhouse, 100x100 ft. estimated to cost $60,000. F. Burrall Hoffman, 15 East 40th St., New York, N. Y., is the Arch. Noted Feb. 5 and June 25.

East Hartford, Conn.—Bids will be received until Aug. 20, by the Board of Education for a two-story brick school, 65x80 ft. A. R. Sharpe, 762 Main St., Willimantic, Conn., is the Arch.

Hartford, Conn.—Bids will be received about Aug. 15 for rebuilding the railroad station of the New York, New Haven & Hartford R.R. Co., at Asylum St. and Union Place. It will be of brick, brownstone and reinforced concrete, one and three stories, and is estimated to cost $220,000.

+Stamford, Conn.—The following bids were received for the construction of a school on Adams Ave.: Barzaghi Co., $66,458; O'Connor Concrete Construction Co., $64,950; Genovese Bros., $59,936; Harris Construction Co., $58,800; Spelke Construction Co., $57,900; VUONO CONSTRUCTION CO., $56,640 (awarded contract). Noted July 16.

Chatham, N. Y.—The city has voted to build a high school to cost $75,000.

Dunkirk, N. Y.—It is reported that bids will be received until Aug. 8 by the Board of Education for constructing a school in the Fourth Ward, estimated to cost $40,000.

Ithaca, N. Y.—Day & Klauder, 925 Chestnut St., Philadelphia, Penn., are preparing plans for two 2-story dormitories for Cornell University.

New York, N. Y.—(Borough of Richmond)—Bids will be received by the President of the Borough until Aug. 25, for the general construction of a courthouse at St. George.

+Elizabeth, N. J.—The contract for building the school in Ripley Place has been awarded to JOHN H. LOWRY, JR., New York, N. Y., at $45,928.

+Merchantville, N. J.—The contract for altering the school building has been awarded to GEORGE W. SHANER, Palmyra, N. J., at about $40,000. H. A. Macomb, Philadelphia, Penn., prepared the plans.

Morristown, N. J.—The citizens have voted to spend $68,000 for the construction of a high school at Early St. and Altho Ave.

+Morristown, N. J.—The contract for erecting the parish house for St. Peter's Episcopal Church has been awarded to ANDREW J. ROBINSON CO., New York, N. Y., at about $100,000.

+Roebling, N. J.—The contract for constructing the new school has been awarded by the Florence Township Board of the BERRY-GOODWIN CO., Philadelphia, Penn., at $60,950. Klemann & Fowler, Trenton, N. J., are the Archs.

West Hoboken, N. J.—The Kelly Construction Co., Yonkers, N. Y., submitted the lowest bid for the construction of a high school at $192,328. Noted July 23.

Bellevue, Penn.—Bids will be received by James W. Graham, Secy. School Bd., until 3 p.m., Aug. 10, for the construction of a high school on Lincoln Ave. W. J. Shaw, Fulton Bldg., Pittsburgh, Penn., is Arch.

McClellandtown, Penn.—Andrew P. Cooper, Uniontown, has been commissioned to prepare plans for the German Township high school. The building will be two stories, of brick, terra cotta and stone, and is estimated to cost $65,000.

✚Oil City, Penn.—The contract for building the three-story brick and stone building for the United Natural Gas Co., on Seneca St., has been awarded to the WESTERN BUILDING CO., Buffalo, N. Y., at about $75,000.

Philadelphia, Penn.—Bids will be received by J. Horace Cook, Supt. of School Bldgs., until Aug. 14, for the construction of the South Philadelphia High School for girls at Broad and Jackson Sts. The estimated cost is $900,000.

Philadelphia, Penn.—Bids will soon be called for by the Board of Education for erecting the Frankford High School in the northeast Section, at an estimated cost of $650,000.

✚Pittsburgh, Penn.—It is reported that the contract for erecting the six-story steel frame and terra cotta fireproof clubhouse for the Loyal Order of Moose has been awarded to WILLIAM MILLER & SONS CONSTRUCTION CO., 530 Fernando St., at $214,566.

✚The contract has been awarded to the HERNDON-HETTRICK ENGINEERING CO., 1502 Empire Bldg., Birmingham, for erecting the four-story reinforced-concrete Walker Building, at First Ave. and 21st St., to be occupied by the Railway, Light & Power Co. The estimated cost is $75,000. William C. Weston, Birmingham, is the Arch.

✚State College, Penn.—The contract for building the three-story brick and limestone chemistry building for State College has been awarded by the Board of Trustees to JACOB MYERS' SONS CO., Witherspoon Bldg., Philadelphia. Day & Klauder prepared the plans.

★Wilmington, Del.—(Official)—Bids will be received by the New Castle County Building Commission and the Wilmington Building Commission, until 11 a.m., Aug. 11, for the concrete work in the construction and completion of the county building for New Castle county and of the municipal building for the city, at French and Tenth Sts. Thomas F. Gormley is Secy.

✚Columbus, Ga.—The contract for the construction of a $60,000 hospital for the city has been awarded to the SOUTHERN FERRO-CONCRETE CO., Atlanta, Ga.

Clarksdale, Miss.—Charles O. Pfiel, Memphis, Tenn., is preparing plans for a five-story office building on Delta Ave., to cost $100,000.

Greenville, Miss.—Plans are being prepared by Mahan & Broadwell, Memphis, Tenn., for a four-story reinforced-concrete department store and office building, to be erected by Charles Hafter. The estimated cost is $60,000.

CONTRACT PRICE

✚Rapid Transit System—New York, N. Y.—Bids were received July 24 by the Public Service Commission for constructing Section 5, Routes 4 and 36 of the Broadway-Fourth Ave. subway from (A) DEGNON CONTRACTING CO. (awarded contract); 60 Wall St., New York; (B) Oscar Daniels Co., Woolworth Bldg., New York; (C) Holbrook, Cabot & Rollins Corporation, 331 Madison Ave., New York; (D) United States Realty & Improvement Co., 111 Broadway, New York; (E) Smith, Hauser & McIsaacs, Inc., 18 East 41st St., New York. The item bids were as follows:

Mount Sterling, Ky.—H. Clay McKee will build a six-story hotel at an estimated cost of $75,000.

✚Cincinnati, Ohio—The contract for the construction of additions and remodeling the Little Sisters of the Poor Home, on Florence Ave., has been awarded to LAWRENCE J. CASEY. Noted May 21.

Cleveland, Ohio—Plans have been completed by the Ralph M. Hulett Co., Arch., 474 Lennox Bldg., Cleveland, for the erection of a three-story and basement brick clubhouse for the German Club. The estimated cost is $50,000.

E. J. Schneider, Arch., Cuyahoga Bldg., has completed plans for the erection of a stone church at Lawn Ave. and West 65th St., for the St. Coleman Parish. The estimated cost is $100,000.

✚The general contract for the erection of the two-story and basement commercial building for the Associated Investors Co. has been awarded to the CROWELL LUNDOFF LITTLE CO., 1951 East 57th St., Cleveland.

✚The contract for remodeling the Second Presbyterian Church, at East 30th and Prospect Sts., has been awarded to the DOODS PAGE CO.. Cleveland, Ohio.

✚Columbus, Ohio—The contract for the erection of the building at Broad and Fifth Sts., for the B. P. O. E., has been awarded to ROBERT H. EVANS & CO., Columbus, Ohio, at $105,307. Noted May 22.

Hudson, Ohio—Bids will be received until Aug. 15, by J. W. C. Corbusier, Arch., 309 Lennox Bldg., Cleveland, Ohio, for the erection of a high school at Hudson.

Lakewood, Ohio—J. W. Chrisford, Arch., Highland Ave., Lakewood, has completed plans for the erection of a four-story, 65x130-ft. masonic temple at Andrews and Detroit Aves., Lakewood. The estimated cost is $100,000. Noted May 21.

✚St. Clairsville, Ohio—The contract for the erection of the high school at St. Clairsville has been awarded to FETZER & WINGER, Pittsburgh, Penn., at $47,000.

Wooster, Ohio—Bids will be received until noon, Aug. 20, by the Agricultural Commission of Ohio, State Capitol, Columbus, for the erection of a building at the Ohio Experiment Station, Wooster, Ohio.

✚Noblesville, Ind.—The contract for the erection of a masonic temple at Ninth and Hannibal Sts. has been awarded to LESLIE COLVIN, Anderson, Ind. Don Graham, Indianapolis, Ind., is the Arch.

Terre Haute, Ind.—Plans are being prepared by George MacLucas & Fitton, Archs., 1151 Lemcke Annex, Indianapolis, Ind., for the erection of a building at Mulberry Ave. and Sixth St., for the State Normal College. The estimated cost is $150,000.

✚Detroit, Mich.—Contracts for the erection of the Northern High School at Detroit have been awarded as follows: Masonry, C. A. SAUER & CO., 311 Buhl Bldg.; iron work, LEWIS & HALL CO., Perry and Robey Sts. The estimated cost is $400,000. Noted July 9.

✚Detroit, Mich.—The general contract for the erection of the one-story and basement bank building for the Peoples State Bank has been awarded to FULLER & CO. The estimated cost is $250,000.

(Buildings continued on Page 102)

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Section 5, Routes 4 and 36

	A	B	C	D	E
78,200 cu.yd. earth excavation above elevation 120	$4.80	$4.50	$6.63	$6.48	$6.25
15,000 cu.yd. earth excavation below 120 to mean high water	4.80	5.00	6.63	6.48	6.50
100 cu.yd. earth excavation below mean high water	4.80	5.50	6.63	6.48	8.00
14,000 cu.yd. earth excavation for sewers	4.80	4.50	6.63	7.50	6.50
42,200 cu.yd. rock excavation	5.50	7.50	6.63	9.50	7.75
2780 cu.yd. rock excavation for sewers	5.50	7.50	6.63	10.50	8.00
38,500 cu.yd. rock fill excavation	4.80	5.00	6.63	8.50	6.50
350 lin.ft. restoration of Central Park stone wall	24.00	12.00	15.00	9.00	10.00
150 front ft. underpinning, Hotel Savoy	50.00	30.00	30.00	150.00	125.00
50 front ft. underpinning, Park & Tilford stable	50.00	80.00	30.00	30.00	100.00
100 front ft. underpinning, New England Apartment and Hotel Roland	50.00	110.00	30.00	180.00	100.00
125 front ft. underpinning, Board of Education Building	50.00	130.00	30.00	30.00	125.00
50 front ft. underpinning, St .Thomas Chapel, 59th and 60th Sts	50.00	50.00	30.00	30.00	100.00
180 front ft. underpinning, 12-story buildings	50.00	140.00	30.00	200.00	125.00
3555 front ft. underpinning buildings other than in above	10.00	90.00	20.00	40.00	82.00
57,100 cu.yd. tunnel excavation	10.00	9.00	9.00	10.00	10.00
220 cu.yd. tunnel excavation for sewers	10.00	10.00	20.00	10.00	15.00
46,500 cu.yd. concrete masonry	10.00	9.50	12.00	10.00	10.00
4700 cu.yd. concrete masonry, outside waterproofing	10.00	9.50	6.50	10.00	10.00
750 cu.yd. rubble masonry	9.00	9.00	5.00	7.00	8.25
50 cu.yd. dry rubble masonry	7.00	3.50	4.00	5.00	8.25
50 cu.yd. brick masonry	15.00	15.00	15.00	13.00	21.00
200 cu.yd. removal of concrete foundations	15.00	8.00	10.00	7.00	20.00
50 cu.yd. hollow terra cotta or tile masonry	15.00	14.00	15.00	15.00	22.00
2000 bbl. portland cement grout	4.50	4.00	5.00	3.50	3.25
1000 lin.ft. timber piles prepared	0.50	0.40	1.50	0.70	1.00
2 M. ft. b.m. timber foundations fastened	50.00	60.00	75.00	80.00	100.00
100 cu.yd. broken stone and gravel	2.50	3.50	2.00	2.50	3.50
6500 sq.yd. waterproofing, 1-ply	0.50	0.40	0.30	0.50	0.50
100 sq.yd. waterproofing, 2-ply	0.75	0.70	0.45	0.65	0.75
16,000 sq.yd. waterproofing, 3-ply	1.00	1.00	0.75	0.96	1.10
100 sq.yd. waterproofing, 4-ply	1.50	1.30	0.90	1.50	1.30
100 sq.yd. waterproofing, 5-ply	1.75	1.60	1.20	2.00	1.60
23,000 sq.yd. waterproofing, 6-ply	2.00	1.90	1.35	2.00	2.25
100 sq.yd. waterproofing, dry ply	0.40	0.40	0.20	0.30	0.50
400 cu.yd. brick in asphalt mastic	25.00	25.00	25.00	25.00	30.00
100 lin.ft. drain pipes, 12-in. vitrified	1.00	1.00	0.70	0.90	1.60
2000 lin.ft. drain pipes, 10-in. vitrified	0.80	0.80	0.65	0.75	1.35
3900 lin.ft. drain pipes, 8-in. vitrified	0.60	0.70	0.55	0.65	0.80
2000 lin.ft. drain pipes, 6-in. vitrified	0.40	0.60	0.50	0.55	0.70
100 lin.ft. drain pipes, 4-in. vitrified	0.20	0.50	0.45	0.50	0.70
100 lin.ft. drain pipes, 6-in. c. i.	1.50	0.90	0.70	1.25	1.60
4000 lin.ft. drain pipes, 4-in. c. i.	1.00	0.70	0.65	0.85	1.10

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.—(Continued)

Section 5, Routes 4 and 36

150 lin.ft. drain pipes, 10-in. c. i.	2.00	1.60	1.25	1.50	2.50
50 lin.ft. 3-in. c.-i. pipes and fittings	1.00	0.60	1.00	1.00	2.00
500 lin.ft. 4-in. c.-i. pipes and fittings	1.25	0.75	1.25	1.50	2.25
150 lin.ft. 6-in. c.-i. pipes and fittings	1.50	1.10	1.50	2.00	2.50
150 lin.ft. 8-in. c.-i. pipes and fittings	2.00	1.50	2.00	2.50	3.00
192,200 duct ft. tunnel ducts	0.10	0.10	0.10	0.10	0.13
47,000 duct ft. railroad ducts	0.15	0.14	0.12	0.20	0.20
1560 tons steel, riveted	72.00	65.00	70.00	75.00	72.00
1870 tons steel, beams	67.00	58.00	60.00	60.00	65.00
190 tons steel, rods and bars	60.00	60.00	60.00	65.00	70.00
25 tons miscellaneous castings	60.00	65.00	60.00	75.00	100.00
6 tons miscellaneous iron furnishings	60.00	65.00	60.00	75.00	115.00
1000 lb. wire forms	0.10	0.15	0.10	0.10	0.11
4560 lin.ft. 1¾-in. oak hand rail	1.00	0.20	0.25	0.40	0.16
3120 sq.ft. steel gratings	1.50	1.75	1.25	1.50	1.60
115 sq.ft. vault lights	1.50	1.30	1.25	1.40	1.60
3000 sq.yd. street surface restored (sidewalk)	2.00	2.50	1.50	2.50	3.00
10,850 sq.yd. asphalt pavement restored	2.50	4.80	2.50	2.00	3.50
2150 sq.yd. granite-block pavement restored	3.50	2.50	1.75	3.50	3.00
2200 sq.yd. asphalt-block pavement restored	3.50	4.80	2.50	3.50	3.50
150 lin.ft. new bluestone curb in place	1.50	1.00	1.00	1.50	2.00
150 lin.ft. new 8-in. granite curb	1.75	1.10	1.50	1.50	3.50
1850 sq.yd. park surface restored	2.00	2.00	2.00	1.00	2.00
2560 lin.ft. electric conduits, ¾-in. w. i.	0.25	0.15	0.15	0.30	0.22
1040 lin.ft. electric conduits, 1½-in. w. i.	0.40	0.30	0.20	0.40	0.40
440 lin.ft. electric conduits, 2-in. w. i.	0.60	0.40	0.25	0.60	0.55
1040 lin.ft. electric conduits, 1-in. w. i.	0.30	0.20	0.20	0.30	0.35
204 c.-i. outlet boxes	1.00	1.00	0.70	1.00	1.60
320 lin.ft. 6-in. c.-i. pipe and fittings	1.50	1.10	1.50	2.00	3.00
285 lin.ft. 3-in. c.-i. pipe and fittings	1.00	0.70	1.25	1.00	2.00
200 lin.ft. sewer pipe, 12-in. vitrified	5.00	2.50	3.00	2.50	3.00
1240 lin.ft. sewer pipe, 15-in. vitrified	5.50	2.80	3.50	2.00	3.50
870 lin.ft. sewer pipe, 18-in. vitrified	6.00	3.25	4.00	2.00	3.75
480 lin.ft. sewer pipe, 20-in. vitrified	6.50	3.75	4.50	2.50	4.00
910 lin.ft. sewer pipe, 24-in. vitrified	7.00	4.50	5.50	3.50	5.50
12 tons c.-i. straight sewer pipe	60.00	38.00	40.00	50.00	80.00
6 tons special castings for c.-i. sewer pipe	100.00	67.00	80.00	75.00	120.00
490 lin.ft. egg-shaped sewer masonry, 3 ft. 6 in. by 2 ft. 4 in.	10.00	5.50	5.75	5.00	9.00
100 lin.ft. egg-shaped sewer masonry, 4 ft. 0 in. by 2 ft. 8 in.	12.00	6.50	9.00	10.00	14.00
210 lin.ft. 4 ft. 0 in. circular sewer	12.00	7.00	6.50	10.00	12.00
130 lin.ft. 5 ft. 0 in. circular sewer	16.00	9.00	20.00	15.00	18.00
700 lin.ft. 5 ft. 6 in. by 5 ft. 6 in. special section sewer	20.00	11.00	13.00	12.00	25.00
470 lin.ft. 6 ft. 6 in. by 6 ft. 3 in. special section sewer	22.00	13.00	18.50	22.00	30.00
480 lin.ft. 7 ft. 0 in. by 7 ft. 0 in. special section sewer	25.00	19.00	29.00	30.00	30.00
5700 lin.ft. street surface R.R., maintaining electric R.R., single track	12.00	13.00	15.00	5.00	15.50
2 elevated R.R. columns supported entirely on structure	1,000.00	750.00	1,200.00	1,000.00	1,200.00
2 elevated R.R. columns supported partly on structure	1,000.00	900.00	1,000.00	1,000.00	1,200.00
Protection of subsurface R.R. in Park Ave. (lump sum)	20,000.00	11,000.00	60,000.00	50,000.00	75,000.00
100 lin.ft. water pipes, 4-in	0.75	0.75	0.60	1.00	0.75
900 lin.ft. water pipes, 6-in	1.00	1.00	0.75	1.50	1.50
100 lin.ft. water pipes, 10-in	1.25	1.40	2.00	1.25	2.00
400 lin.ft. water pipes, 12-in	1.50	1.75	2.25	1.75	3.00
100 lin.ft. water pipes, 20-in	1.75	2.50	4.35	3.50	4.00
100 lin.ft. water pipes, 30-in	2.00	3.50	9.00	6.00	7.00
100 lin.ft. water pipes, 36 in	2.25	4.50	12.00	8.00	10.00
200 lin.ft. water pipes, 48-in	2.50	6.00	16.00	10.00	12.00
40 water service restored	10.00	15.00	50.00	4.00	20.00
100 lin.ft. gas pipes, 4-in. c. i.	0.50	0.75	0.65	1.00	0.75
1400 lin.ft. gas pipes, 6-in. c. i.	0.75	1.00	1.15	1.00	1.50
600 lin.ft. gas pipes, 8-in. c. i.	1.00	1.25	1.25	1.50	1.75
100 lin.ft. gas pipes, 10-in. c. i.	1.25	1.40	1.75	1.75	2.00
400 lin.ft. gas pipes, 12-in. c. i.	1.50	1.75	2.75	1.75	2.00
200 lin.ft. gas pipes, 16-in. c. i.	1.60	2.20	3.50	2.25	3.50
500 lin.ft. gas pipes, 20-in. c. i.	1.75	2.50	4.35	3.00	4.00
300 lin.ft. gas pipes, 30-in. c. i.	2.00	3.50	9.00	4.00	7.00
2900 lin.ft. 6-in. w.-i. bypassing pipes, below street	2.00	3.50	3.60	3.00	4.00
6800 lin.ft. 8-in. w.-i. bypassing pipes, below street	2.50	4.00	5.60	4.00	5.00
2300 lin.ft. 12-in. w.-i. bypassing pipes, below street	3.00	5.50	9.70	7.00	6.50
200 lin.ft. 16-in. w.-i. bypassing pipes, below street	3.50	8.50	16.00	10.00	7.50
1200 lin.ft. 12-in. w.-i. bypassing pipes, above street surface	3.00	4.00	9.70	7.00	8.00
1400 lin.ft. 16-in. w.-i. bypassing pipes, above street surface	3.50	7.25	16.20	10.00	9.00
750 lin.ft. 30-in. w.-i. bypassing pipes, above street surface	4.00	9.00	30.00	12.00	15.00
100 lin.ft. 8-in. w.-i. bypassing pipes, above street surface	2.50	2.75	5.60	5.00	6.00
2300 lin.ft. trestle to support bypassing pipes	1.00	4.50	5.00	3.00	5.00
400 lin.ft. 6-in. w.-i. gas pipe	1.00	0.75	3.00	2.00	0.65
100 lin.ft. 8-in. w.-i. gas pipe	1.00	1.00	4.00	3.00	1.10
300 lin.ft. 10-in.w.-i. gas pipe	1.50	1.25	5.00	3.50	1.25
65 service connections for gas pipes	10.00	15.00	25.00	6.00	20.00
75 tons new c.-i. hub and spigot straight pipe	40.00	29.00	30.00	35.00	80.00
100 lin.ft. 6-in. new standard weight w.-i. gas pipe	0.60	0.75	1.00	1.50	1.00
100 lin.ft. 8-in. new standard weight w.-i. gas pipe	0.80	1.10	1.25	1.10	1.80
100 lin.ft. 10-in. new standard weight w.-i. gas pipe	1.00	1.60	1.50	2.50	2.60
50 tons new c.-i. hub and spigot pipe special castings	60.00	62.00	60.00	50.00	100.00
2000 lb. new malleable-iron gas-pipe fittings	0.05	0.20	0.15	0.10	0.20
100 lin.ft. high-pressure water 8-in. spigot and groove pipe	1.00	2.00	1.95	2.00	3.00
200 lin.ft. high-pressure water 12-in. spigot and groove pipe	1.50	3.00	3.50	4.50	4.00
100 lin.ft. high-pressure water 16-in. spigot and groove pipe	2.00	4.00	6.35	6.00	6.00
4 tons new c.-i. spigot and groove straight pipe	40.00	36.00	30.00	45.00	90.00
8 tons new c.-i. spigot and groove pipe special castings	60.00	72.00	75.00	75.00	110.00
100 lin.ft. steam pipe, 4-in	1.00	0.60	15.00	2.00	15.00
100 lin.ft. steam pipe, 10-in	5.00	1.00	25.00	5.00	20.00
100 lin.ft. steam pipe, 15-in	7.50	1.75	27.00	8.00	25.00
200 lin.ft. steam pipe, 20-in	10.00	3.50	35.00	10.00	30.00
50 lin.ft steam pipe, 24-in	12.00	4.50	50.00	18.00	35.00
10 service connections for steam pipes	25.00	25.00	100.00	8.00	50.00
100 lin.ft. new steel welded flanged 10-in. steam pipes	2.00	1.60	10.00	6.00	8.00
100 lin.ft. new steel welded flanged 15-in. steam pipes	2.50	4.90	17.00	8.00	10.00
100 lin.ft. new steel welded flanged 20-in. steam pipes	3.00	9.50	25.00	10.00	12.00
100 lin.ft. new 4-in. steam pipes	1.50	0.75	5.00	2.00	2.00
50 lin.ft. new 24-in. steam pipes	3.50	12.50	40.00	18.00	20.00
100 lin.ft. 4-in. air pipe, in place	0.50	0.60	0.50	2.00	2.00
100 lin.ft. new 4-in. air pipe, in place	0.50	0.75	1.00	2.00	2.00
100 lin.ft. 8-in. mail tube	3.50	2.00	5.00	2.50	10.00
50 lin.ft. new 8-in. mail tube straight pipe	2.50	2.00	10.00	2.50	8.00
50 lin.ft. new 8-in. mail tube curved pipe	4.00	4.00	25.00	4.00	10.00
30.000 duct ft. electric ducts and conduits, in place	0.50	0.25	0.75	0.40	0.60
500 lin.ft. w.-i. pipes as ducts and conduits, 2½-in.	0.50	0.30	0.60	0.50	0.50
7500 lin.ft. w.-i. pipes as ducts and conduits, 3 in.	0.50	0.30	0.70	0.60	0.60
200 lin.ft. w.-i. pipes as ducts and conduits, 3½-in.	0.50	0.30	0.75	0.70	0.80
400 lin.ft. w.-i. pipes as ducts and conduits, 4-in.	0.50	0.30	0.80	0.80	1.00
200 lin.ft. 2-in. Edison conduit	1.25	0.30	1.00	0.50	0.75
200 lin.ft. 2½-in. Edison conduit	1.25	0.30	1.25	0.55	1.00
200 lin.ft. 3-in. Edison conduit	1.25	0.30	1.50	0.70	1.25
50 service connections for electric ducts	10.00	10.00	25.00	5.00	26.00
Extended totals	$2,819,511	$3,103,420	$3,340,887	$3,497,888	$3,660,541

(Buildings continued from Page 100)

Grand Rapids, Mich.—Osgood & Osgood, Archs., Herald Bldg., Grand Rapids, have prepared plans for the erection of a six-story and basement temple for the Masonic Temple Association. The estimated cost is $400,000. Noted May 21.

Oakwood, Mich.—Bids have been rejected for the school to be erected at Oakwood. New bids will be received. The estimated cost is $75,000. Noted June 11.

+Saginaw, Mich.—The general contract for the erection of the one-story and basement theatre for J. B. Kirby has been awarded to A. GELINAS & SONS, Chase Block, Saginaw, Mich. The estimated cost is $75,000.

Chicago, Ill.—Harmst B. Norland, 105 South La Salle St., will erect an 18-story office building at 101-19 South La Salle St. The estimated cost is $350,000. C. S. Frost, 105 South La Salle St., is the Arch.

Elgin, Ill.—Bids will be received until 10 a.m., Aug. 18, by the State Board of Administration, Springfield, for the erection of a building at the Elgin State Hospital. James B. Dibelka is the State Arch., 29 South La Salle St., Chicago, Ill.

Milwaukee, Wis.—Martin Tullgren & Sons, Archs., 133 Second St., are receiving bids for the erection of a three-story and basement, 28x150-ft. store and office building at Ninth and Wells Sts. The estimated cost is $50,000. Noted July 23.

H. J. Esser, Arch., Camp Bldg., is receiving bids for the masonry and concrete work for the addition to the store building of Gimbel Bros. The estimated cost is $400,000. Noted July 23.

The Milwaukee Northern Ry. Co. contemplates the erection of a terminal station at Fifth and Wells Sts. W. A. Walker is Pres.

+Stevens Point, Wis.—Contracts for the erection of the addition to the Normal School have been awarded as follows: General contract, J. P. CULLEN CONSTRUCTION CO., Janesville, Wis., $56,000; heating, HARRY SOHNS, Racine, Wis., $7045; tile and marble, GRANT MARBLE CO., Milwaukee, Wis., $3184. Noted July 16.

+Waterford, Wis.—The contract for the erection of the high school at Waterford has been awarded to MATT REWALD, Burlington, Wis., at $55,000. Noted July 2.

+Flandreau, S. D.—(Official)—The contract for the erection of the high school at Flandreau has been awarded to O. H. OLSON, Stillwater, Minn. Noted July 23.

CONTRACT PRICE

Barge Canal Work—Albany, N. Y.—Bids were received July 21, by Duncan W. Peck, Supt. of Pub. Wks., for Barge Canal Contracts, No. 109 and 118, for constructing the substructures, superstructure and approaches of the Crescent Highway bridge, Erie Canal Section 2, and constructing a highway bridge over the Mohawk River, at Amsterdam, Erie Canal, Section 3, respectively, from (A) Penn Bridge Co. Beaver Falls, Penn.; (B) Frank L. Cohen, Buffalo; (C) Larkin & Sangster, Seneca Falls; (D) John W. Holler, Albany; (E) Lathrop, Shea & Henwood, Buffalo; (F) Eastover Construction Co., Inc., Gloversville; (G) Lupfer & Remick, Buffalo; (H) Walsh Construction Co., Davenport, Iowa; (I) M. Fitzgerald, Hoosick Falls; (J) Holler & Shepard, Rochester; (K) Parker & Beebe, Waterford; (L) Scott Bros., Rome; (M) John Monks & Sons, New York; (N) Oswego Construction Co., Fulton. The item bids were as follows:

Billings, Mont.—The lowest bid received for the erection of the office building for the Montana Power Co. was that of Nelson & Pederson, Butte, at $72,500. Link & Haire are the Archs. Noted Feb. 12.

El Paso, Tex.—H. M. Bentell, Jr., Arch., 404 Caples Bldg., is preparing plans for a six-story hotel at San Francisco and David Sts., for George Look and associates. The estimated cost is $85,000.

Temple, Tex.—The Gulf, Colorado & Santa Fe R.R. is having plans prepared for an addition to its hospital. The estimated cost is $50,000.

Salt Lake City, Utah—Plans have been completed for the erection of a hotel for the Newhouse Realty Co. The estimated cost is $150,000.

Seattle, Wash.—The Seattle Trust Co. will erect a building for a Home for the Aged and the Poor. The estimated cost is $150,000.

Seattle, Wash.—Louis Baeder, Arch., White Bldg., has prepared plans for the erection of a 7-story apartment house, for the Amos Brown Estate. The estimated cost is $200,000.

+Walla Walla, Wash.—The Northern Pacific R.R. Co. has awarded the contract for the erection of a railroad station at Walla Walla to M. J. HURSON, Globe Bldg., Seattle, Wash., at $40,000.

Astoria, Ore.—R. F. Wassell will erect a five-story apartment house at Astoria. The estimated cost is $100,000.

Eugene, Ore.—Bids are being received by W. C. Knighton, State Arch., Salem, Ore., for the erection of an administration building at the State University. The estimated cost is $100,000.

Portland, Ore.—Camp & DuPuy, Archs., 426 East Alder St., are preparing plans for the erection of a four-story apartment building at East 13th and East Alder Sts., Portland. The estimated cost is $90,000.

Bakersfield, Calif.—Bids will be received until 10 a.m., Sept. 8, by the Board of Supervisors, for the erection of a two-story auditorium at Bakersfield. The estimated cost is $60,000.

Fresno, Calif.—George William Kelham, Arch., Sharon Bldg., San Francisco, is preparing plans for the erection of a bank building at Fresno. The estimated cost is $100,000.

Los Angeles, Calif.—Arthur G. Lindley, Arch., 412 Hollingsworth Bldg., has prepared plans for the erection of a five-story and basement hotel on Gladys Ave. The estimated cost is $100,000.

Frank Reiter, 1039 Manzanita St., will erect an apartment house on Sunset Blvd. and Manzanita St. The estimated cost is $75,000.

+Los Angeles, Calif.—The general contract for the erection of the 12-story bank and office building at Fifth and Spring Sts., for the Commercial Fireproofing Co., has been awarded to the F. O. ENGSTROM CO., Fifth and Seaton Sts. Parkinson & Bergstrom, Security Bldg., are the Archs.

Norwalk, Calif.—George R. McDougall, State Arch., Sacramento, has prepared plans for the erection of a state hospital at Norwalk. The estimated cost is $160,000.

San Diego, Calif.—The Bonita Investment Co. will erect a three-story hotel at Cape May and Abbott Sts., Ocean Beach.

BARGE CANAL WORK, ALBANY, N. Y.

Contract 109

	A	B	C	D	E	G	H	I	J	K	L	M	N
13,550 cu.yd. excavation	$0.75	$0.65	$0.55	$0.60	$0.65	$0.55	$0.75	$0.67	$0.65	$0.75	$0.75	$0.75	$0.78
430 cu.yd. lining	1.50	1.50	1.50	1.50	1.50	1.50	1.80	1.50	1.50	1.70	1.50	1.75	1.80
4300 cu.yd. second-class concrete	8.50	9.60	7.10	7.40	9.60	9.50	8.00	8.00	7.80	9.00	9.00	9.60	9.60
835 cu.yd. first-class reinforced concrete	12.00	14.40	12.00	11.00	10.00	11.00	14.00	13.00	11.50	13.00	12.00	14.40	14.40
890 cu.yd. wash wall	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.00	2.00	2.40	2.25	2.20	2.40
0.9 M. ft. b.m. sawed lumber	60.00	60.00	60.00	60.00	70.00	60.00	60.00	50.00	60.00	60.00	60.00	60.00	72.00
2,697,000 lb. structural steel	0.042	0.04	0.038	0.037	0.038	0.037	0.04	0.0425	0.0375	0.04	0.0375	0.039	0.04
162,000 lb. metal reinforcement	0.028	0.036	0.03	0.03	0.025	0.0335	0.035	0.03	0.03	0.035	0.03	0.035	0.036
930 lin.ft. wooden fence	0.25	0.25	0.25	0.25	0.25	0.25	0.30	0.26	0.25	0.25	0.30	0.28	0.30
1135 lin.ft. lattice railing	1.75	1.75	2.10	2.00	1.75	1.75	1.75	2.00	1.75	1.90	1.80	1.90	2.10
2275 sq.yd. bituminous surfacing	0.30	0.30	0.30	0.30	0.30	0.30	0.35	0.35	0.30	0.30	0.30	0.33	0.36
6 signal lamps (oil)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	22.00	15.00	15.00	15.00	16.00	18.00
Coffer-dams, pumping, bailing and draining "A", lump sum	3600.00	1300.00	2500.00	3000.00	3600.00	3600.00	5200.00	4000.00	3000.00	3600.00	3600.00	3000.00	3600.00
Coffer-dams, pumping, bailing and draining "B", lump sum	20,000.00	1000.00	1.00	21,000.00	100.00	3000.00	25,000.00	21,000.00	14,000.00	12,000.00	100.00	18,000.00	150.00
Maintaining navigation	100.00	50.00	100.00	100.00	120.00	100.00	100.00	150.00	100.00	100.00	100.00	100.00	120.00
Moving existing buildings	100.00	50.00	100.00	100.00	120.00	100.00	100.00	150.00	100.00	100.00	100.00	100.00	120.00
Extended totals	$203,813	$183,694	$163,917	$183,738	$174,393	$174,974	$206,407	$205,026	$180,618	$195,150	$174,576	$201,548	$188,139

Contract No. 118

	A	B	C	D	E	F	G	H
Coffer-dams, pumping, bailing and draining, lump sum	$18,500.00	$17,828.00	$19,000.00	$16,000.00	$19,000.00	$19,500.00	$19,125.00	$19,200.00
5620 cu.yd. excavation	1.75	1.25	1.50	1.2	0.75	1.75	1.35	1.50
12,600 lin.ft. foundation piles	0.35	0.30	0.35	0.30	0.25	0.40	0.30	0.35
100 lin.ft. wrought-iron pipe railing	1.56	1.50	1.50	1.50	1.50	1.50	1.50	1.50
4700 cu.yd. second-class concrete	7.50	7.50	8.50	7.50	7.00	8.50	7.75	7.00
715 cu.yd. reinforced concrete	12.50	12.00	12.00	11.00	10.00	13.00	12.00	12.00
138,000 lb. metal reinforcement	0.028	0.03	0.03	0.03	0.025	0.03	0.03	0.035
280 cu.yd. rip-rap	2.50	2.50	2.50	2.50	2.50	3.50	2.50	2.50
1,667,000 lb. structural steel	0.0435	0.038	0.039	0.042	0.039	0.045	0.039	0.04
1860 sq.ft. portland cement sidewalks	0.25	0.20	0.25	0.25	0.25	0.25	0.25	0.20
160 lin.ft. stone curbs	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
250 sq.yd. brick pavement	2.50	2.00	2.50	2.50	2.50	2.50	2.50	2.50
900 lin.ft. lattice railing	1.75	1.75	2.10	2.00	1.75	2.00	1.75	1.75
1550 sq.yd. asphalt block pavement	2.00	2.00	2.00	2.00	1.50	3.00	2.00	2.00
Maintaining highway traffic (lump sum)	4000.00	4000.00	4500.00	4000.00	4000.00	16,000.00	4000.00	4800.00
Removing boat house, etc. (lump sum)	500.00	500.00	500.00	500.00	600.00	500.00	500.00	600.00
Removing existing bridge (lump sum)	1200.00	1000.00	1000.00	1000.00	1000.00	2000.00	1138.00	1200.00
Maintaining navigation (lump sum)	500.00	100.00	500.00	500.00	600.00	2000.00	500.00	500.00
6 oil signal lamps	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
880 lin.ft. laying railroad track	0.50	0.40	0.50	0.50	0.50	0.50	0.50	0.60
Extended totals	$164,568	$152,548	$163,467	$157,604	$147,408	$192,635	$158,093	$159,462